

CSC2015 PARTICIPANTS

ALBERTSSON Kim

University of Technology, Lulea - Sweden



I first came to CERN as a summer student working with improving the drivers for machine protection. Recently I joined CMS as a technical student where I worked on the Run Control system, maintaining and developing tools to facilitate the smooth running of the data acquisition system connected to the detector. The brunt of the work is done in Java with which I have gained an intimate relationship with during the past year.

Previously, I have worked with driver programming for bare-bones/bare-metal embedded systems in C. Mainly developing for ultra-wideband communications devices used for messaging in distributed networks.

ANDRIOPOULOU Danai

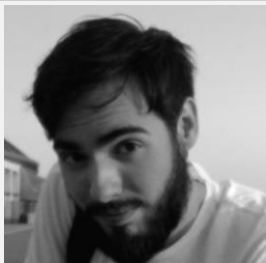
CERN, Geneva - Switzerland



From September of 2014, I am working at CERN as a Research Fellow in IT-CS-CT section. Our section is a small section of young developers, which is in charge of building software for support and management of the network, telephony, and network services. I am involved in the development process of a new web platform that will replace the current user portal (network.cern.ch). Through my three years working experience as a web developer, I have been exposed in both the front-end and back-end development, mainly programming in Javascript, Java, Groovy and C#. I am a user of Windows and Linux operating systems. Previously, I worked in "Innovation Accelerator", a startup in Athens, as a web developer for two years.

ANDRONIDIS Anastasios

University of Ioannina - Greece



Anastasis Andronidis is a computer scientist graduated with excellence from Aristotle University of Greece and now is a PhD candidate in Imperial College London. After 4 years in the GRID and multiple internships in CERN and Google Summer of Code, he started working at CERN on OpenStack solutions and Linux. Currently he holds title of Apache PMC member of the Apache Hama project and he is contributing as an intern in Google's Kubernetes project.

ANGELIDIS Grigorios

University of Glasgow - United Kingdom



Grigorios Angelidis is a marine scientist and human nutritionist. He is passionate about sports and everything around fitness & well-being. In his early university years (University of the Aegean), he worked in café-bars where he developed great social and communication skills. He was also a semi-professional football player and later on a crossfit athlete.

He likes to take initiative and works well under-pressure. In addition, Grigorios Angelidis has made several publications and presentations of his work in conferences.

During his Master's degree in human nutrition (University of Glasgow) he acquired vital knowledge, which he now puts to work for recipe developing of both healthy & nutritious meals. In his spare time, he enjoys socializing, travels and various physical activities.

AVILES DEL MORAL Alejandro

CERN, Geneva - Switzerland



I am currently a fellow at CERN working as a full stack web developer for Indico. My occupation involves extensive use of Python, Javascript, Jinja (HTML) and SASS (CSS), as well as several frameworks (Flask, AngularJS, and Compass), libraries (jQuery, SQLAlchemy, pytest) and other technologies (PostgreSQL, Redis, Sphinx, Git). Moreover, my tasks also include carrying out service operations making use of CERN agile infrastructure and providing support to Indico users through Service Now. Other languages I use frequently are shell script, LaTeX, and, a bit less often, Java and C++. As for my operative systems of choice, I go for Mac OS X and Elementary OS (Ubuntu-based).

BADILLO ROJAS Julian Andres**Universidad de los Andes, Bogota - Colombia**

Julian is a proudly Colombian, Systems and Computing Engineer, who did both his bachelor's and master's degree at Universidad de los Andes (in Bogota), in which has also taught a few classes about maths for computing science. He used to compete in ACM ICPC (programming contests for geeks) and teach programming to bachelor-degree students. Julian has worked in software development, information security, education and a bit in cryptography. He currently works for the CMS Collaboration at CERN, under the Computing Operations team making monte carlo simulations run across the grid. Among his interests you can count maths, algorithms and a bit of machine learning.

BALL Fionn Amhairghen**University of Bristol - United Kingdom**

Since I've started working at CERN as a PhD student, firmware is pretty much all I stare at during my long working hours. One firmware engineer recently described my code as "gnarly" whereas one software engineer preferred the words "magic voodoo" - exactly what I think about his C++ code - which is one of the reasons I am here. In software I've written GUI applications in C++, Python and Java but would like to learn more about coding efficiently, using different databases and new design patterns.

BIANCHI Ludovico**Forschungszentrum Jülich, - Germany**

I'm currently a PhD student at the Institute for Nuclear Physics at the Forschungszentrum Jülich, Germany, where I'm working on online track reconstruction algorithms and their implementation on GPUs for the future PANDA experiment at FAIR.

My academic and scientific background is in particle physics; for my master's thesis, I studied new physics in the single top quark sector with the CDF experiment at Fermilab.

I would consider myself still a beginner when it comes to low-level, performance-optimized programming, but I find this field extremely interesting and challenging. I enjoy learning new techniques, tools, and how things work "under the hood".

I have hands-on experience with C/C++, including ROOT-based particle physics frameworks, CUDA, Python, shell scripting and various programming utilities.

BODO-MERLE Sandor**ELI-ALPS, Szeged - Hungary**

Currently I am working in the Scientific Computing Group at ELI-ALPS. I am responsible for setting up the Scientific IT infrastructure that will enable the data management and data analysis of the experimental data collected in the different experiments done in our future user facility. Part of my work is to give support for the scientist so they can create better and more efficient codes to process their data. I have significant experience in Linux administration and DevOps. I am familiar with C/C++, Java, Perl and Python programming languages.

BOLOGNA Simone**Università degli studi di Milano-Bicocca - Italy**

I was born in Siracusa (Italy) on July 27th 1992. Since I was a child I had great interest in computing, for this reason I studied IT during my high school years in a technical institute. I started my Physics course in September 2011 at the University of Milano-Bicocca with the intention of pursuing a computing curriculum in the field of Particle Physics. I got my Bachelor's Degree with full grades in 2014 with a thesis titled "A cosmic-ray stand to test the response of microchannel-plate detectors to ionizing particles" in which I analysed the detection efficiency to cosmic-rays and the time resolution of an MCP detector. I am currently pursuing my Master Degree in Particle Physics.

BOYCHENKO Serhiy**Universidade de Coimbra – Portugal**

Serhiy Boychenko is an Information Sciences and Technology PhD student in Coimbra University (Portugal). Currently he is doing his research at CERN in Machine Protection group towards the new accelerator transient data analysis framework, which will be able to keep up with recent hardware upgrades and satisfy the requirements of the equipment expert and operation crews. Previously he has worked with Desktop and Service Grids technologies (EDGI project), Cloud Computing (TRONE) and Environment Impact Assessment (SimaPro integration). Among his main topics of interest are distributed computing, Web applications, data storage and analysis. Serhiy likes to spend his free time with family or do sports (football, table tennis, power-lifting, occasionally skiing).

BRANCA Antonio**INFN, Padova - Italy**

I am a postdoc at the INFN in Padova, Italy, and a member of the CUORE Collaboration, at the LNGS. I am working on the development of a computer cluster within a CLOUD infrastructure, based on OpenStack, for the parallelization of the CUORE data analysis. I am also going to get involved in data analysis for the commissioning of the cryogenic and mechanical apparatus of the CUORE experiment. Previously I worked within the CMS Collaboration, at CERN, as a Ph.D. student of the University of Padova, where I got my doctoral degree in 2013. During the Ph.D., I searched for the Higgs boson particle as predicted by the minimal supersymmetric standard model (MSSM), in the hadronic channel with b-quarks in the final state. I also worked for the development of the data quality monitoring software system of the drift-tube muon sub-detector, making different detector performance studies.

CAICEDO SIERRA Ivan Dario**Inst. of Experimental & Applied Physics of the Czech Technical Uni.in Prague - CZ**

I hold a Bachelor and Master's degree in Physics from the Universidad de Los Andes in Colombia. Since 2013, I work as an Early Stage Researcher of the ARDENT program (Advanced Radiation Dosimetry European Network Training), in the Marie Curie ITN framework, while based at the Institute of Experimental and Applied Physics of the Czech Technical University in Prague.

My research aims to measure the composition and spectral characteristics of mixed radiation fields using hybrid pixel semiconductor detectors (Medipix and Timepix). In order to do this, I have worked on the characterization of the response and development of methods for the applications of these detectors in nuclear physics, medical physics and radiation monitoring (e.g. in space, aircrafts, or particle physics experiments). Currently, our group managed to put together significant reference data from measurements with Timepix in ion accelerators, devices in space, and a Timepix-based detector network installed inside the ATLAS experiment.

I am familiar with the programming languages C++ and Python, the ROOT Data Analysis Framework, and have experience with the use of Unix based systems."

CAIRO Valentina Maria Martina**University of Calabria, Arcavacala - Italy**

I got my Master Degree in Physics with honors in 2013 at the University Of Calabria, in Italy. I am now a PhD student at the same University and a Doctoral Student at CERN, in the ATLAS Collaboration.

The current work is essentially split in two main parts: I am contributing to the integration and development of the offline simulation programs of the New Small Wheel and on the main validation and physics simulation activities. I am also actively participating in the initial data analysis for LHC Run-II at 13 TeV, working on optimisation procedures of analysis programs and strategies, with particular emphasis on tracking performance and material distribution studies for Minimum Bias analysis.

CANO ARCO Jose Daniel**ERN, Geneva - Switzerland**

Graduate in Computing Science Engineering from University of Granada in 2006, I start to work in the telecommunications sector in Spain testing and improving mobile networks. Then I move to Madrid where I started to work for an interesting project in "Telefónica de España" related to Oracle Databases, Oracle Weblogic Servers and Public Key Infrastructure (PKI), where I improve my skills on Unix, Linux and Windows system administration, PL/SQL language and acquire interesting knowledge about virtualization in VMware.

While I was finishing my Master Degree in Security of the Information and Communication Technologies in the University Autònoma of Barcelona and UOC in 2014, I decided to apply for a Fellowship at CERN where actually I am working in the IT-DB group in a Research and Development project related to High Availability services, Load Balancing services and Linux Containers. The involved technologies I have been testing and applying for the current architecture here in the section I am working in now are Red Hat HA, Oracle CRS and Pacemaker / Linux HA for High Availability solutions, and on Linux Container technology such as Docker, LxC and OpenVZ. During this period of time at CERN I am learning and improving my skills on Ruby, Puppet, Python and Java.

CASALLAS LEON John Harvey**Universidad de los Andes, Bogota - Colombia**

He is a Systems and Computing Engineer from the Universidad de Los Andes in Bogotá, Colombia. He has a masters degree in Systems Engineering from the same University. He has worked several years as a professor, and participated in projects of software development and IT consulting. Currently, he works at CERN in CMS computing operations as part of the Tier0 team. There, his major task is the operation of the system in close collaboration with coordinators and the data taking crew of the detector. His areas of interest are design and development of software, and business processes analysis, design and automation to solve large scale problems.

CASPART Rene**KIT, Karlsruhe - Germany**

I graduated in 2014 in physics at the Karlsruhe Institute of Technology as a member of the CMS Collaboration.

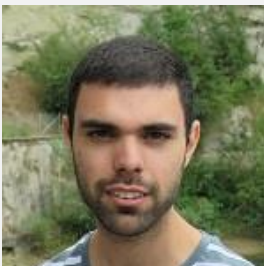
The major topic of my master thesis was the statistical combination of the individual results in the Higgs boson decay channel into two tau-leptons.

Since June 2014 I am working on my PhD thesis, which does focus on analyses of the Higgs boson decay into two tau-leptons.

The aim is to be among the leading groups in this field and being able to perform measurements from front (data-taking) to end (results for publication).

In addition I participated in central developments of the CMS data popularity web interfaces and services.

Since July 2014 I have taken over the task of the system administrator of the Institute of Experimental Nuclear Physics.

CORDERO BENITEZ Jose Andres**Universidad de Oviedo - Spain**

I'm José Andrés Cordero, from Spain. I graduated last year in Software Engineering at the University of Malaga and did an internship in a security company near Zurich. Then I was selected to be an associated to the Database On Demand project at CERN, providing Database-as-a-Service framework supporting MySQL, Postgres and Oracle databases. Currently I'm also doing a Master in Artificial Intelligence, remotely with the University of Malaga, and funding a new company with a group of friends.

I love technology and learning new things, especially about computer security and BigData. I try to be always busy with a project, a course or reading something of interest. I hope to learn a lot at CSC, meet new people and have great experiences!

DAMYANOVA Antoaneta**University of Geneva - Switzerland**

I am currently involved in the Mu3e experiment as a doctoral student at the University of Geneva. The goal of this experiment is to search for lepton flavor violation in the $\mu^+ \rightarrow e^+ e^- e^+$ decay channel. My main responsibilities include the development and evaluation of a scintillating-fibre timing detector readout by silicon photomultipliers. I have been working on the data analysis and preparation of several related test beams, as well as on the simulations of the experiment.

I did analysis on low energy nuclear physics experiments for my bachelor degree, which I obtained in 2011 at the University of Sofia. In 2013 I graduated with a master degree from the University of Geneva working on the first detector studies for the Mu3e experiment.

DAVIS Michael**CERN, Geneva - Switzerland**

Michael is a senior fellow at CERN, developing control software for radiation-tolerant power converter controllers for the LHC. He holds a BSc. in Computer Science from Brunel University (UK), a MSc. in Computer and Electronic Security from Queen's University, Belfast (UK) and a Ph.D. in algorithms for pattern and anomaly detection in network structures, also from Queen's. His areas of expertise include software engineering in C/C++/Linux, high-performance and parallel computing, statistical machine learning and algorithm design. Michael became interested in computational physics because many of the latest ideas in machine learning originated in the physics community. He is attending the school of computing in an attempt to bridge the gap between his Computer Science background and his somewhat inadequate knowledge of physics.

DENDEK Adam Mateusz**AGH University of Science and Technology, Krakow - Poland**

I am first year PhD student and a member of the Krakow LHCb group. Recently, I have started a project related to the UT (upstream tracker) upgrade, regarding a new readout and data processing system. I have already prepared official experiments software platform emulation system. Moreover, I obtained a lot of experience in programming

During my work in Nokia as a software developer. I am familiar with agile software development method. This experience convinced me, that testing of the software and Test Drive Development need to be considered critical during the process of software development. I am working mostly using Linux based operational systems but I am also able to work on Windows machines. I can efficiently prepare macros in python, bash and ROOT. In case of programming languages I mostly write in C/C++ and Python.

DIBBO Alexander**STFC RAL, Didcot – United Kingdom**

I am a Systems Administrator in the Scientific Computing Department of the UK's Science and Technology Facilities Council. I work as part of the cloud team and I also work on a number of Grid services including our HTC batch farm for the LHC computing project.

Prior to my position here I worked in IT at a SMB focusing on Storage and Virtualisation, in particular Hyper-V and VMWare.

FERMIN LOBO Marcos**Universidad de Oviedo - Spain**

I have been working during many years as Web and Android developer. Also, I have developed some personal projects by my own and others as member of a working group at my university. As a researcher in e-Learning and augmented reality in the University of Oviedo (Spain), I have published one paper in the proceedings of IADIS International Conference Mobile Learning 2013. Today I'm involved in OpenStack development and deployment at CERN. I'm participating in the continuous improvement of some of the OpenStack components. During this time I manage operating systems like Linux (Scientific Linux and CentOS) and Windows. I'm very familiar with Python, bash, C#, Puppet, PHP and Java programming language. Also, I have very good knowledge of web languages oriented like HTML, CSS and Javascript.

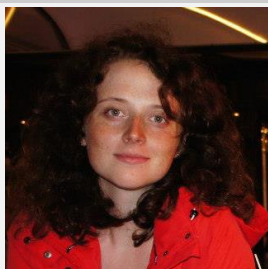
FRAZAO Leonor**University of Bristol – United Kingdom**

I am a PhD student in Particle Physics at the University of Bristol. My project is on Muon Scattering Tomography, a technique that uses cosmic muons as probes to scan unknown objects for high-Z nuclear materials. The main purpose is to identify different materials in nuclear waste drums, which is important for nuclear waste disposal. For this, my current work is performing Monte Carlo simulations, with Geant4, and trying different algorithms for data analysis, in order to better distinguish materials, such as multivariate analysis and mathematical models of the physics processes.

I previously worked on the study of scintillating crystals and photodetector modules for Positron Emission Tomography, when I did my Master's degree at the Instituto Superior Técnico, in Lisbon, in collaboration with LIP Lisbon and CERN.

GARCIA GONZALEZ Miguel**Universidad de Oviedo - Spain**

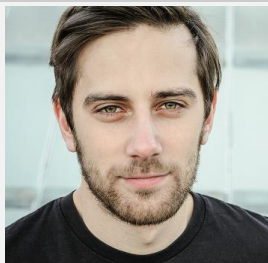
Having studied Computer Engineering in the University of Oviedo, in Spain; I went to an ERASMUS to the North of Sweden in 2011 in order to improve my English while finishing my degree. After doing my Final Degree Project and my first internship both focused in Computer Vision using the "Kinect" device for different purposes; I started to work at CERN as a Service-Now developer in 2013 and I've been there now for 2 years and a half: taking care of the integration with the INFOR system, providing support and being responsible for the setup and maintenance of the tool "Performance Analytics" among other things."

GASNIKOVA Ksenia**DESY, Hamburg - Germany**

Currently I'm working as a PhD student in DESY. I'm doing physics analysis for standard model at ATLAS experiment. I'm studying proton structure, using W and Z bosons decays. I have been studying applied physics and mathematics in Moscow Institute of Physics and Technology. In 2013 I participated in CERN summer school. After completing in 2104 my Bsc and Msc studies at COMPASS experiment, I moved to Hamburg. I'm familiar with C++, Python, ROOT, Matlab, and R.

GKIKI Despina**Eastern Macedonia & Thrace Institute of Technology, Kavala - Greece**

Despina A Gkika holds a Bachelor's Degree in Business Economics from University of Portsmouth as well as a certificate of postgraduate studies in Business Economics - Finance and Banking from the same University. She also holds an MSc in Innovation in Technology & Entrepreneurship. She has worked as a project manager in a private organization for almost 3 years, as well as a Bank employee in the National Bank of Greece. She began working with the Eastern Macedonia and Thrace Institute of Technology in 2010. She is a Research Project Coordinator responsible for the NANOCAPILLARY "Thales" and NANOSKAI "Archimedes" research programmes. She is also the Coordinator of the "MSc in Oil & Gas Technology" Programme. Her main responsibilities involve economic management of various programs as well as drafting and implementing proposals for new research programmes for the institute. These responsibilities include arranging payroll and managing the program participants. At the moment, Despina is undertaking a PhD on the Cost of Nanotechnology at the University of Antwerp. Despina also has technical experience, including training at a large scale Neutron Scattering and Diffraction facility at IFE.

GOUVEIA Joao**Faculdade de Ciências e Tecnologia - Universidade Nova de Lisboa - Portugal**

I graduated from the New University of Lisbon - Faculty of Sciences and Technology (bachelor's degree as an IT Engineer in 2010, and Master's degree, in IT as well, in 2013). I, then, started working in my University on the "LxConventos" project, as a scholarship researcher. It consisted in creating a spatio-temporal visualization of the evolution of Lisbon's religious houses, using georeferenced data, photographs and 3D models.

By June 2014 I applied for a scholarship within the project "Europeana Space: Spaces of possibility for the creative re-use of Europeana's content", in which the New University of Lisbon and several other European partners participate, coordinated by Coventry University. I started developing the "DancePro", conceived and designed to assist the creative processes of choreographers, functioning as a digital notebook for personal annotations through video annotation. In addition, I am also developing a mobile app to serve as a remote control for the tool.

GRONEFELD Julius Maximilian**Faculdade de Ciências e Tecnologia - Universidade Nova de Lisboa - Portugal**

I'm a PhD student working in the ALICE collaboration. My current topic is the measurement of charged particle spectra and multiplicity in pp collisions at a collision energy of 13 TeV. I am living in Darmstadt in Germany, where I started studying in physics 2008. Until I started my masters degree a few years ago, I had no mayor programming experience. Since then I had to learn – and did so with pleasure – the usage of the CERN-ROOT framework. When I'm not busy I like to be outside, preferable by bike and tent. I'm looking forward to Greece and to join up with all of you.

GUDU Diana**KIT, Karlsruhe - Germany**

I am a PhD student at the Karlsruhe Institute of Technology within the Human Brain Project. I am working on evaluating different cloud storage solutions, such as Ceph and S3, and integrating and maintaining the cloud infrastructure in HBP. My current research is focused on a distributed and highly-scalable framework for trading cloud resources, using a multi-agent approach.

I earned my BSc degree in Computer Science from the Polytechnic University of Bucharest with a specialisation in compilers and operating systems, and completed my MSc studies in Computational Science and Engineering at the Technical University of Munich. Alongside the studies, I worked on different tasks related to performance analysis tools, parallelization and adaptive mesh refinement of tsunami simulation software, and static program analysis.

My research interests include distributed systems, high performance computing and highly-scalable data storage. I have experience with Linux and programming in C++, Java, Python, Bash and Matlab, as well as several parallelization libraries and standards (MPI, OpenMP, Intel TBB)

HA Karel**CERN, Geneva - Switzerland**

Karel is a computer science student at the Charles University in Prague, the Czech Republic. In his master studies, he focuses on algorithmic game theory and solving end-games for poker.

Currently, he's employed as a technical student at the CERN LHCb Online team working on the upgrade of the LHCb trigger and DAQ system. He will study the feasibility and performance of Intel Xeon/Phi computing accelerator for (near) real-time applications such as event-building, event-sorting and event preparation for subsequent processing by high level trigger software algorithms. This will be achieved by using the latest software frameworks proposed by Intel hStreams, OpenACC and OpenMP 4.0.

In his past, Karel was a research scientist in Watson Research, IBM, and also a summer student in Data & Storage Services group, IT department of CERN.

HENCZ Akos**CERN, Geneva - Switzerland**

My name is Akos Hencz, and I was born in a small village, Zirc, in Hungary, in 1982. I was studying maths and computer science at a university in Budapest, and I graduated with a Bsc. I decided to do my Msc abroad, somewhere north in Europe, and so a year later, I started a 2-year English language Masters programme in Tampere, Finland. In my final year I was admitted to CERN as a technical student, and hence I wrote my Master's thesis at CERN. When my technical student contract ended, I graduated from the Finnish university, and a month later I began a fellowship at CERN in 2014. I am still a fellow, which gave me the opportunity to join the CSC in 2015.

In my spare time I like to do hiking, snowboarding, and play computer games. I also enjoy cooking occasionally.

HOFFMANN Malte Georg**Hamburg University – Germany**

I am PhD student working in the CMS group of the University of Hamburg. Right now I am working on a Heavy Higgs Analysis using a kinematic fit. Before I worked on the Phase I upgrade of the CMS pixel detector. I studied physics in Hamburg, but was born and raised in Münster. In my spare time I enjoy going to the cinema and playing video games. I'm looking forward to learning a lot about computing as I believe it's one of the most useful skills to have.

HO Kuo-Hao**Academia Sinica, Taipei - Taiwan**

I completed my master degree in computer science in National TsingHua University. Currently responsible for Taiwan Academia Sinica Grid Computing Centre (ASGC) distributed job management (DJM) system operation and development to support high energy physics. Before coming to CERN, I also maintained ASGC certification authority web page. My main task now is developing a new DJM system to support AMS experiment based on ATLAS collaborations. From 2014, cooperating with ATLAS Panda team in software developments (like collaboration integration with Panda and Rucio, EventService in Panda).

The language I'm familiar with is python, with experience in C and JAVA. I think CSC is an ideal place to meet people of same interests, improving my technical skills.

HSU Asa**Academia Sinica, Taipei - Taiwan**

I graduated from National Kaohsiung First University of Science and Technology with a bachelor's degree in Department of Information Management and work as a Software & System Engineer at Academia Sinica Grid Computing Centre in Taiwan on software deployment automation. I will stay at CERN for the next 6 months, and will work with the team of EOS, the storage management software for ATLAS, at the CERN IT department. I am acquainted with UNIX & LINUX systems and Python, PHP, Objective-C, also have experience on web front-end user interface developing.

KALATHAS Ioannis**Eastern Macedonia & Thrace Institute of Technology, Kavala - Greece**

John (Ioannis) Kalathas is hardware expert at TEI EMT Computer Center, Kavala, Greece, where he supports the WLCB Tier-2 site. He graduated from TEI Kavala, with a bachelor degree of Electrical Engineering in 2011. After Graduation he lived in Thessaloniki in order to study at "Cisco Networking Academy" as Network Administrator in 2012. He received his Master of Science in "Innovation in Technology and Entrepreneurship" from TEIEMT in 2014. During his Msc studies, he was trained by Cern Experts in order to work as a Tier-2 Expert at Kavala's Computer Center. He is co-founder of Viosi, an innovative-purpose startup company, which is placed 4th in National competition between startups (2014). His interest also include computer networks, sensor networks at smart grid environments.

KANJIR Luka**Jozef Stefan Institute, Ljubljana - Slovenia**

I finished Physics at University of Zagreb. I obtained there a masters' degree in theoretical nuclear physics. Afterwards I got the position of young researcher at Institute of Jozef Stefan in Ljubljana (Slovenia) where I currently work. I finished with exams in University of Ljubljana and am a part of group which work for ATLAS. Currently, I am working on software which will be used to calculate the luminosity with detector called Diamond Beam Monitor. I already did some simulations which I made to determinate the optimal active area of our detector. I am mainly using Unix operating system, but also Windows 7/8 sometimes. I am familiar with C++, Python, Athena, Mathematica, Fortran, Origin and html. A have also used Microsoft Office, Open Office and LaTeX."

KARANIKOLAOU Evgenios**Democritus University of Thrace, Komotini - Greece**

Evgenios M. Karanikolaou was born in Thessaloniki, Greece, in 1980. He holds a Diploma in Electrical and Computer Engineering (2005); and a M.Sc. in Energy-Aware High Performance Computing from Democritus University of Thrace, Greece (2014). His research interests are in the field of High Performance Computing, Performance Evaluation of Algorithms on Interconnected/Internetworked Computer Systems, Performance Scalability and Energy Consumption on Many-Core and Multi-Core Platforms, Energy Efficiency, Parallel Algorithms, Fault Tolerance and Load Balancing of Parallel Architectures. He is an IT Professional mainly in HPC infrastructures.

KAZANIDIS Ioannis**National Technical University of Athens - Greece**

Ioannis Kazanidis received the MSc degree in Computing from the Coventry University, the PhD degree in Educational Technology at University of Macedonia and he has been trained in GRID site installation and operation in CERN IT Department. Currently he is an adjoined assistant professor at Eastern Macedonia and Thrace Institute of Technology, Greece and the GR-12-TEIKAV GRID site administrator while at the same time he is working as IT freelancer. He has more than 3 years of experience in national research project. His main research interests lie in the area of big data, grid-cloud technologies, educational technology, e-learning, adaptive educational systems, data mining methods and algorithms in education, computer supported collaborative learning and virtual learning environments. He has published 18 papers in International Journals and Book chapters, and more than 35 papers in proceedings of international conferences.

KECK Thomas**KIT, Karlsruhe - Germany**

I am a Ph. D. student in Physics at the Karlsruhe Institute of Technology in Germany. As a member of the Belle II collaboration I am responsible for the development of data-driven multivariate analysis methods.

In particular my work is focused on hadronic and semileptonic tagging algorithms, and their application to rare B meson decays.

I am an experienced C++ and python developer, and interested in any new technologies in the field of computer science.

At the moment I have a strong interest in data mining algorithms, pattern recognition using deep neural networks, as well as visualisation and sonification of scientific data. Besides work, I enjoy playing guitar and practising taekwondo.

KOSMIDIS Pavlos**National Technical University of Athens - Greece**

PAVLOS KOSMIDES was born in Kavala, Greece, in 1985. He received his Diploma degree in Information & Communication Systems Engineering in 2008 from the University of the Aegean (Samos). He is currently pursuing a Ph.D. degree in the School of Electrical and Computer Engineering of the National Technical University of Athens (NTUA). His research interests lie in the fields of distributed context management, context access control in Smart Space environments, context inference, intelligent transport systems, energy efficiency and heterogeneous wireless networks. He has participated in several European and national research projects. He is a member of Technical Chamber of Greece.

KROL Kamil Henryk**CERN, Geneva - Switzerland**

Kamil Król is a professional Software Engineer. He obtained Master's Degree in Computer Science and Bachelor's Degree in Management at AGH UST in Krakow (Poland). Since 2013 he has been working at CERN designing and developing applications for machine protection purposes. Before joining CERN, Kamil had opportunity to gain his professional experience in one of the biggest IT companies in Poland developing software for the telecommunication sector. Among his main topics of professional interest are cloud and distributed computing, back-end development, NoSQL data storages, systems integration and different aspects of the agile team management. Kamil likes to spend his free time reading and doing sports (hiking, mountaineering, climbing, skiing, cycling and running).

KULINICH Yakov Petrovich**University Illinois, Champaign – United States**

I am a PhD student at UIUC working on heavy-ion physics at ATLAS. Previously, I worked with the PHENIX collaboration at BNL in New York, as well as the NSLS II project at BNL. At the start of my graduate studies I worked on the construction of a new drift chamber for the COMPASS collaboration at CERN. I like to play sports, mainly football and hockey, and enjoy playing the saxophone.

KONIG Axel**Inst. of High Energy Physics of the Austrian Academy of Sciences, Vienna Austria**

Axel König started his studies in Physics at the University of Vienna in 2009 and received a MSc in Physics with distinction in 2014. During his master studies, he gained deep insights into semiconductor processing within his industry internship at an Austrian semiconductor manufacturer. Mr. König is currently employed as a PhD student at the Institute of High Energy Physics in Vienna where his main research topic is the development of silicon strip detectors for the CMS phase II tracker upgrade. In particular, he is responsible for the qualification of a new supplier of silicon strip sensors. Therefore, Mr. König performs extensive sensor characterization comprising electrical measurements, irradiations at nuclear research reactors and beam tests at particle accelerators. Mr. König is also involved in the design of test structures for process quality control especially suitable for silicon strip sensors produced on 8-inch wafers.

LANG Nicolas**Bergische Universitaet, Wuppertal – Germany**

I am a physics master student at the university of Wuppertal, specializing in particle physics. I got involved with CERN and the ATLAS experiment when writing my Bachelor thesis in 2014 which was a top quark physics analysis. Being a technology and computer enthusiast I shifted focus to computing tasks within the group and am currently working on improvements of the "Job Execution Monitor", a tool designed to monitor grid jobs as well as generate monte carlo validation plots. Most recently I helped conducting a major update of the underlying framework and switch to a new environment. Working on both the front and back end of the application confronts me with various programming / markup languages such as python, javascript and html.

LAURILA Santeri Henrikki**Institute of Physics, Helsinki - Finland**

I am currently a PhD student in the University of Helsinki, Finland, specializing in experimental particle physics. I focus on the data analysis of the charged Higgs boson searches by the CMS Collaboration. In my PhD project, my primary task is to develop a new data-driven background measurement technique for final states that involve tau leptons in high pile-up conditions. Previously I have studied engineering physics as my major, and computer science and theoretical physics as minors. I got absorbed into the world of particle physics while working at CERN in 2012 as a summer student. After that I completed my Master's thesis on Higgs searches at Helsinki Institute of Physics.

LOBANOV Artur**DESY, Hamburg - Germany**

In 2013 I obtained my diploma in particle physics from the Moscow State University. I've worked on a satellite based particle detector for cosmic ray research, NUCLEON.

Together with testing of custom ASICs, I developed an MVA based algorithm to separate electrons from hadrons using the calorimeter.

Afterwards I started my PhD at DESY in Hamburg working for the CMS experiment. For my technical task I've been participating in the readout electronics upgrade, commissioning and calibration of the HCAL Outer detector during the first Long Shutdown of the LHC. The computing part was running and writing the commissioning and calibration software for the newly installed Silicon Photomultipliers.

The analysis topic for my thesis will be search for supersymmetric particles at 13TeV. The search will use the new data from LHC Run2: first, simulation samples for signal theories have to be generated, then potential signal events have to be identified in the whole dataset using a data-driven background estimation.

The majority of the analysis is based on the ROOT framework using C++ and python.

LOUGIAKIS Christos**National and Kapodistrian University of Athens - Greece**

Christos Lougiakis is an undergraduate student on the Department of Informatics and Telecommunications at the University of Athens where he is finishing his studies. He currently belongs to the DG-EDU-TEO section in CERN, where he works as a front-end and back-end web developer, software developer and database designer. He is part of the CERN's S'Cool LAB project, a place where students have hands-on experience with experiments connected with particle physics.

MAELAND Steffen**University of Bergen - Norway**

I'm on my second year of PhD studies at the University of Bergen, Norway. I'm working with the ATLAS experiment, and I'm currently involved in two analyses -- one is a study of the Higgs spin-CP properties in decays to tau pairs, while the other is a performance study of the pixel subsystem. In addition to analysis work, I've also been taking part in development and maintenance of the readout software for the new IBL subsystem.

MCCONNELL Lucas**University of Cape Town – South Africa**

Lucas McConnell is a Master of Science student at the University of Cape Town (South Africa) where he works in experimental high energy physics as part of the ATLAS collaboration. He is currently working on cross-sections related to W-boson scattering with the distinctive experimental signature of two same sign leptons. He graduated in 2014 from the University of Cape Town with a Bachelor of Science Honours degree in Physics, with his Honours Thesis being concerned with simulating a Gluon-Plasma and studying its subsequent equilibration. He participated in the 2015 CERN Summer Student Program where he worked on investigating charge particle multiplicities and their angular correlations as part of the LHCb collaboration.

MORAIS Matheus**Pontifícia Universidade Católica do Rio Grande do Sul - Brazil**

I am BSc in Computer Information Systems working for more than 10 years in the field of computing. My graduate work was related to OLAP modelling for molecular docking in the area of drug development process. Nowadays I work for the large credit union of south Brazil in the reliability team, which is responsible to keep most critical systems working. I'm also work in the research area of the company, more specifically in HPC research, conducting internal studies on how financial corporations can take advantage of HPC.

I have no experience in particle physics area, but the subject always interested me, especially on how computing science can help in the experiments of the theories. I'm looking for the opportunity to learn that new subject and apply the knowledge in my current area if it is possible.

MOSKALIK Damian Radoslaw**AGH University of Science and Technology, Krakow – Poland**

Damian Moskalik is a Computer Scientist working at CERN in IT-DB group. In 2013 he received an engineer degree after studying at AGH University of Science and Technology.

After the graduation he has been working as a software developer for one year in Cracow, Poland. He started his work at CERN in 2014. Currently he is a part of the team developing Middleware on Demand application. After the work he enjoys a game of football and good music.

NIKOLOUTSOPOULOS Panagiotis**Aristotle University of Thessaloniki – Greece**

I am a Computer Science Bachelor student from Greece, currently doing my internship at CERN. I have a few years of working experience on Web Development with various platforms and technologies, but I have recently taken interest in other fields, such as Big Data and Machine Learning. After finishing my internship, I plan on furthering my studies and perhaps pursuing a more academic career.

NOLAN John**Eastern Macedonia & Thrace Institute of Technology, Kavala - Greece**

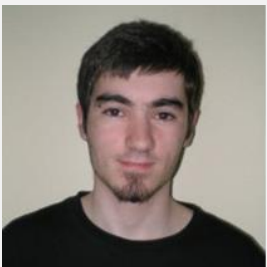
I have a degree in Optoelectronics from the University of Essex and a Ph.D. in Physics from the University of Nottingham. He has been a Research Associate at the National Centre for Scientific Research Demokritos, in Athens, Greece. In 2007 John took up the position of Research Assistant at the Eastern Macedonia & Thrace Institute of Technology. Since 2012 has is Head of Nanotechnology at the Hephaestus Laboratory. John is a specialist in the characterisation of materials using advanced techniques such as Scanning Tunneling Microscopy, Atomic Force Microscopy and Scanning and Transmission Electron Microscopy. John also has many years of experience in instrument and software development, in a variety of multiplatform languages. John's research interests include application of nanotechnology in electronic devices, and porous materials in clean technologies.

PIKIES Malgorzata Maria**AGH University of Science and Technology, Krakow - Poland**

I have got mine engineer's and master's degree in Technical Physics at the University of Science and Technology in Krakow, Poland. My dissertations topics were gluon cross section and gluon saturation in Quantum Chromodynamics. Since 2013 I am a Ph.D. student at the same university and a member of the Krakow LHCb group. I also take part in the LHCb UT upgrade project. For many years I have been interested in particle physics and in experiments at CERN. During my studies I have dealt with many programming languages, I feel the most comfortable in C++ and Python."

RAMA BALLESTEROS Rocio**CERN, Geneva - Switzerland**

I graduated as engineer of Computer Science from the University of Granada. Currently, I am working as a fellow in the Support for Distributed Computing (SDC) group of the CERN IT department, in the Monitoring Infrastructure section which is in charge of the development and support of the WLCG monitoring infrastructure. I am developing and supporting the tools used for the monitoring of the distributed sites and services, mainly the Site Status Board (SSB) and the Service Availability Monitoring (SAM). I am programming in Python, JavaScript/jQuery and Oracle PL/SQL, and I also have experience with Kibana and Grafana for the visualization of monitoring data. I am familiar with different operating systems such as Windows and Linux (Ubuntu/Scientific Linux).

REY REGULEZ Mario**CERN, Geneva - Switzerland**

I finished my Masters in Web Engineering two years ago at the University of Oviedo in Spain, and right after that I came to work at CERN as a Project Associate on IT-OIS. As a member of the Web Services team I work on the infrastructure and tools for hosting and managing websites on central CERN web servers, so users can easily deploy and manage various aspects of their websites in an efficient way. I'm more specialized in Windows web servers for SharePoint and DFS websites, reasons why I use mostly .NET languages for coding, but I can defend myself with scripting languages, Java and several web technologies.

RODRIGUEZ PEREZ David**Universidad Autónoma de Sinaloa, Culiacán - Mexico**

My name is David Rodríguez Pérez. I was born on October 15th, 1990 in the city of Mazatlán, México. I realized my university studies in the Universidad Autónoma de Sinaloa (UAS), my thesis was "Revisión de modelos para colisiones de iones pesados". Now I am a student in the second year post grade at UAS and I'm starting in Belle II, experiment of high luminosity and located in Tsukuba, Japan. In Belle II the software is called basf2, where I used the programming languages c++ to construct functions and Phyton to call them. With this framework I'll study tau decays where the lepton number is not conserved in order to know the nature of neutrino, if this was possible.

ROUSSEAU Herve**CERN, Geneva - Switzerland**

I work at CERN in the IT-DSS Group. We're responsible for developing, operating and supporting the large scale storage facilities at CERN and work on a daily basis with in-house products (EOS, Castor) but also open source projects (eg: Ceph, ZFS).

I am also running a smaller scale NFS based filer service for internal customers, some part of the federated storage infrastructure for Atlas and CMS.

Before coming to CERN, I worked for the manufacturing and healthcare industries where I was running critical parts of the IT infrastructure such as storing confidential patient data, designing and implementing disaster recovery scenarios.

When not in front of a computer, I enjoy cycling, hiking in the countryside and travelling

RZEHORZ Gerhard Ferdinand**Georg-August University, Geottingen - Germany**

Gerhard Rzehorz, born in 1987, was always very curious and therefore developed an early interest in studying physics. During his basic studies in Karlsruhe (KIT) he explored the different fields of physics and stuck to experimental particle physics as the most interesting. In order to make use of the most recent technologies in (Grid-) Computing, he decided to contribute with his thesis "Grid-Site-Monitoring for Belle II". The different software and technologies used for this new experiment, which was still under development, were based on the LHC experiments. These experiences drove him to successfully apply for a Ph.D. position at CERN, where he is currently positioned under the Gentner-Program (University of Göttingen). His research focuses on "Integrating Cloud Storage Technologies with WLCG Data Infrastructure". He is currently affiliated with the ATLAS experiment, where he is working on his authorship qualification.

SCHENCK Ferdinand Wilhelm**University of Cape Town, Cape Town – South Africa**

I am currently occupied with a Masters degree in particle physics at the University of Cape Town. My thesis concerns studying exclusive photo-production of leptons at the ATLAS experiment. Other than physics I am interested in High Performance Computing, GPGPU, machine learning and simulations, and hope to be able to spend more time on these subjects during a PhD.

SCHREIBER Alexis Andre**CERN, Geneva - Switzerland**

I graduated as engineer of Computer Science from the University of Granada. Currently, I am working as a fellow in the Support for Distributed Computing (SDC) group of the CERN IT department, in the Monitoring Infrastructure section which is in charge of the development and support of the WLCG monitoring infrastructure. I am developing and supporting the tools used for the monitoring of the distributed sites and services, mainly the Site Status Board (SSB) and the Service Availability Monitoring (SAM). I am programming in Python, JavaScript/jQuery and Oracle PL/SQL, and I also have experience with Kibana and Grafana for the visualization of monitoring data. I am familiar with different operating systems such as Windows and Linux (Ubuntu/Scientific Linux).

SIDEBO Edvin**KTH Royal Institute of Technology, Stockholm - Sweden**

I am a second year PhD student from Sweden working on the ATLAS experiment. As such I am particularly interested in improving my data analysis and physics computing skills. At the moment I have basic knowledge of programming (mostly Python and C++), and as such I am looking forward to spending time and meeting with computing experts and IT people to learn new techniques. Previously I have been involved in the 'Minimum Bias Analysis' measuring charged particle distributions, as well as work on artificial neural networks used for pixel clustering in the ATLAS Pixel detector."

SKAMBRAKS Sebastian**Technische Universität München, - Germany**

My main research interests are machine learning and elementary particle physics, with a special focus on the connection of both disciplines. I graduated in Informatics (2013) and Physics (2014), at the Ludwig Maximilian University of Munich (Germany). Afterwards, I started as a PhD Student in the Belle II working group of the Max Planck Institute for Physics. My current work at the Technische Universität München covers the development of a machine learning based first level track trigger system for the upcoming Belle II detector. Following the goal to construct a fast and robust 3D track reconstruction, I am in particular studying neural networks combined with a bayesian parameter estimation for the preprocessing.

SURDY Kacper**CERN, Geneva - Switzerland**

Kacper Surdy is a member of Database Services group of the IT Department. His activities aim at improving scalability of the database services used by CERN and HEP community, in particular by investigating, deploying and supporting open source solutions. He studied Computer Science at University of Warsaw, Faculty of Mathematic, Informatics and Mechanics. He has joined CERN for the first time as Technical Student in Security Team in 2012, then in 2015 as a Fellow in DB group. His main professional interests are big data topics, parallel and distributed computing, algorithms.

TERTYCHNYY Ivan**NRC-KI, Moscow, Russian Federation**

Last year (2014) I graduated in Physics from Moscow State University. Currently as participant of PanDA refactoring team I'm contributing to PanDA project which is the main workflow management system in ATLAS. Also I'm working on unified interface integrated with different WMS beyond HEP that is a part of my PhD in Computer Science at NRC "Kurchatov Institute". Another project that I'm involved in is NoSQL based Data Product Catalog that can potentially become the main meta-data source for all ATLAS needs.

THOLEN Heiner**Hamburg University, Germany**

Heiner Tholen graduated in Physics at RWTH Aachen university. In his bachelor thesis, he characterized a Halbach-array magnet for PERDaix, a balloon-borne particle detector designed to investigate the solar modulation of cosmic particles at low energies.

He changed to the CMS experiment for his master thesis, where he performed a cross-section measurement of the associated top quark pair and photon production.

Currently, Heiner is involved as a PhD student at the University of Hamburg, where he is preparing a search for vector-like top partners with the CMS Experiment at 13 TeV.

As there are many mass-, width- and coupling strength-hypotheses to be scanned, the analysis will impose a need for very efficient event processing.

Some of his other interests are music, preferably rock'n'roll, surf-, snow- and skateboarding, as well as 3d-printing.

THUSINI Xolisile Octavia**University of Cape Town, South Africa**

Xolisile Octavia Thusini was born and raised in a traditional household in KwaZulu-Natal, Nqutu, South Africa. After high school she continued to tertiary level and completed her first degree in Bachelor of Science majoring in physics and electronics at university of Zululand, Empangeni. Thereafter she never looked back and continued to study honours at University of Rhodes, Masters in mathematical sciences at African Institute for Mathematical Sciences. She is currently doing masters by dissertation in experimental particle physics at University of Cape Town. In her research project she is working with one of the exotic groups under ATLAS, which is searching for the Higgs boson through beyond SM light gauge boson decay. At instance she is participating in CERN Summer Student Program for the period of two months ending in August 2015.

Xoli has always been dedicated and hardworking when trying to achieve her desired goals. She does not let any obstacle to stand her way; she believes dreams do come true only if you tirelessly fight for them. Xoli hopes to register her PHD in physic immediately after completion of her research masters, and find job within the academic centers nor research centres while serving her home country by empowering and encouraging young African women to contribute towards developing Africa in science related field

VERGUILLOV Vassil**Bulgarian Academy of Sciences, Sofia - Bulgaria**

Vassil has MSc degree in Particle and Nuclear Physics from Sofia University. He held research positions at Laboratori Nazionali del Gran Sasso in Gran Sasso, Italy; Rutherford – Appleton Laboratory in Oxford, UK; University of Geneva in Geneva, Switzerland and Instituto de Astrofísica de Canarias at La Palma, Spain. His experience includes scientific research in the field of high energy physics, data analysis, algorithm development, database design and software integration. He was responsible for the deployment of the first particle physics Grid cluster at Sofia University in 2006. He has been active collaborator in five of the world's major particle and astrophysics experiments for the last 10 years.

VIANA BARBOSA Joao Vitor**FCT Fundacao para a Ciencia e a Tecnologia, Lisbon – Portugal**

I am João Barbosa, born in Portugal, Coimbra, a city of students. I was raised a little bit all over Portugal, even lived in Azores for a while, until I went to Sintra, Lisboa, which is the city I call home. There was where I graduated from Aerospace Engineering, where I have most of my best memories and where I learned most of what I know. After graduating I had the opportunity to join LHCb at CERN as part of the Central Control Group, operating in Geneva, giving way to a completely new set of experiences, being the CSC 2015 a solid landmark!

VIGO HERNANDEZ Carlos**ETHZ – ETH, Zurich - Switzerland**

My name is Carlos and I am a PhD Student in Particle Physics at ETH Zurich. My research focuses on Experimental Physics with Positronium in both applied and fundamental research.

I am 24 and come from Barcelona, Spain. I speak Catalan, Spanish and fluent English, can understand French and German and I am always willing to learn a few words in any language. I love nature and sports, specially football and table tennis. I enjoy reading and watching films as well, and my favorite hobby is probably traveling. I love visiting new countries and getting to know different cultures.

I studied General Engineering in Barcelona and came to Zurich as an Erasmus student for my Master Thesis. I graduated in 2013 and started my PhD in Physics then.

VORDOS Nikolaos**Eastern Macedonia & Thrace Institute of Technology, Kavala - Greece**

Management & Administration of the University of Macedonia in 2008. Nikos is undertaking a PhD on the Bio - characterization with Small Angle X - Ray Scattering at the Medical School of Democritus University of Thrace. He has industrial experience, including time with Prisma Electronics, where he was responsible for research in wind and photovoltaic systems & power electronics and new product development. He is currently teaching Renewable Energy I & II at EMT and is a specialist technician in X-ray characterization at the Hephaestus Laboratory. His research interests include the application of fuzzy logic to energy-saving control systems, and the utilisation of in-situ SAXS for the characterisation of biological materials.

VYSKOCIL Jiri**Czech Technical University, Prague – Czech Republic**

Jiří Vyskočil obtained the Masters degree in applied physics for a thesis titled "3D PIC code for simulations of short pulse laser target interactions - three-dimensional effects" from the Faculty of Nuclear Sciences and Physical Engineering of the Czech Technical University in Prague under the supervision of Dr. Ondřej Klimo and prof. Jiří Limpouchin 2012. His research is in the area of particle acceleration in interactions of short ultra-intense laser pulses with plasmas, at present time with focus on electron acceleration using PW-class lasers interacting with gas targets in the framework of the ELI Beamlines project. He is working with various parallel Particle-in-Cell codes, and developing his own massively parallel hybrid MPI/OpenMP code in C++ with heavy use of template meta-programming. His interests in high performance computing also include visualizations of large datasets, and general Linux and Unix-like systems development.

WĘGRZYNEK Adam Tadeusz

University of Technology, Warsaw – Poland



I graduated from Warsaw University of Technology as Telecommunication Engineer. My fields of interests are web-technologies and cryptography.

I work in Data Acquisition Team at ALICE Experiment. As ALICE migrates towards web-based, real-time solutions, I've been designing and developing some of them. I also provide on-call expert support for ALICE Run Control Center.

Besides the work I love mountains and any activities connected with them"

ZABOROWSKA Anna



I obtained MSc of Physics diploma at the Warsaw University of Technology. I was working on angular correlations of pions, kaons and protons in proton-proton collisions. I analysed data from ALICE at the LHC as well as from MC models (Pythia, Phojet). To study the impact of the conservation laws I developed CALM, a MC toy-model.

My current work as a doctoral student at CERN in PH-SFT is dedicated to the work on the software for the Future Circular Collider (FCC). In particular, I am working on fast simulation in Geant4, taking advantage of the AtI Fast approach, and integrating it into the mainline Geant4. In addition, I focus on a single particle reconstruction using Kalman filtering.

ZIVIANI Serena



I recently graduated at the University of Modena and Reggio Emilia with a bachelor's thesis on the development of a CUDA-based runtime support for short and repeated tasks.

I am very familiar with the GNU/Linux operating systems, especially Arch Linux and Debian-based distributions. I look forward to study the Linux kernel. I know well C/C++ and Python languages. I am also familiar with Java, bash, SQL and matlab. I can understand simple x86 assembly in both Intel and AT&T syntax.

I am familiar with the concept of version control. Of the available software I generally use git