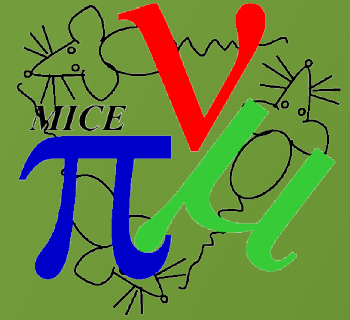




# Controls and Monitoring II



Christopher Heidt  
University of California Riverside  
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# State Machine Alarm Handler and Archiver

- Parsing script developed:
  - Reads .csv supplied by system expert
  - Produces fully formed (mostly) alarm handler and archiver configurations
- Working experience needed to finalize alarm limits and exception tolerances
- Completed systems:
  - Beamline (sans DS)
  - Focus Coil
  - CKOV
  - Many hall environment monitors

				Owner	Support	Required Time (Hours)	Pr
Controls and Monitoring	Environment	Temperature Humidity Barometry WaterLeaks	IOC	Hanlet		40	
			GUI(s)	Hanlet		1	
			ALH	Heidt		1	
			Archiver	Heidt		1	
			Documentation	Hanlet		0	
		Radiation	IOC	Hanlet		40	
			GUI(s)	Hanlet		3	
			ALH	Heidt		1	
			Archiver	Heidt		1	
			Documentation	Nebransky		0	
	Beamline	Beamline Magnets	IOC	DL		5	
			GUI(s)	Hanlet		1	
			ALH	Heidt		1	
			Archiver	Heidt		1	
			StateMachine	Hanlet		40	
			Documentation	Nebransky		20	
		Proton Absorber	IOC	Hanlet		40	
			GUI(s)	Hanlet		3	
			ALH	Heidt		1	
			Archiver	Heidt		1	
			TestSuite	Hanlet		5	
		Documentation	Documentation	Nebransky		10	
			IOC	Hanlet		30	
			GUI(s)	Hanlet		0	
			ALH	Heidt		1	
		Beam Stop	Archiver	Heidt		1	
			Documentation	Nebransky		5	
			IOC	Hanlet		40	
			GUI(s)	Hanlet		4	
		Diffuser	ALH	Heidt		1	
	Archiver		Heidt		1		
	TestSuite		Blackmore		10		
Documentation	Blackmore			1			
Particle Identification	CKOV	IOC	Hanlet		10		
		GUI(s)	Hanlet		2		
		ALH	Heidt		1		
		Archiver	Heidt		1		
		Documentation	Cremaldi		5		
MICE Channel	FC	IOC	DL				
		GUI(s)	Hanlet		10		
		ALH	Hanlet		1		
		Archiver	Hanlet		1		
		StateMachine	Hanlet		80		
		TestSuite	Watson		80		
		Documentation	Watson		20		

# Tracker Integration

- Code written to translate from C++ IOC to EPICs PVs used by CaM
- Merging tracker DAQ into IOC
  - Practice in patience
  - Everything does exist already

# EMR IOC

- Early work
  - IOC reads WTI plugs
  - Just monitoring controls to be added
- Slow work, educating myself on how networks and devices communicate

	envName	envTemp					
		76					
	I	TI	P	TP	RI	RTI	V
A	4 A	4 A	873 W	869 W	37	37	235 V
B	5 A	5 A	263 W	263 W	54	54	234 V
C	0 A	0 A	0 W	0 W	0	0	0 V
D	0 A	0 A	0 W	0 W	0	0	0 V
T		9 A		2133 W		91	
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			
	-0 A	-1 W	-1	1			