Project Skills Matrix ECE4871 rev.

rev. 1/18/2018

Directions: Please rate yourself in each of the skillsets according the the scale:

0=No relevant experience, 1=exposed to but limited proficiency, 2=applicable coursework and/or work experience, 3=2+ years academic or professional experience

	-	Digital		Mechanical		Project Management		Technical Writing	Avg StDe	2V
Radha Changela	1.0	2.0	0.0	2.0	1.0	2.0	2.0	2.0	1.5	0.8
Katie Roberts	2.0	3.0	1.0	0.0	2.0	3.0	2.0	2.0	1.9	1.0
Hubert Elly	2.0	1.0	2.0	0.0	1.0	1.0	2.0	2.0	1.4	0.7
Christine Saw	2.0	1.0	1.0	0.0	1.0	1.0	2.0	2.0	1.3	0.7
Lara Kassabian	1.0	1.0	0.0	3.0	2.0	3.0	3.0	0.0	1.6	1.3
Katie Weatherwax	1.0	2.0	0.0	1.0	2.0	3.0	3.0	3.0	1.9	1.1
Elizabeth Herrejon	1.0	1.0	2.0	3.0	2.0	3.0	3.0	3.0	2.3	0.9
Member X (Advisor)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Avg:	1.3	1.4	0.8	1.1	1.4	2.0	2.1	1.8		
StDev:	0.7	0.9	0.9	1.4	0.7	1.2	1.0	1.2		

Expanded Descriptions:

Analog Design	Transistor level design (IC or PCB) of amplifiers, filters, power supplies, ADC/DACs, RF circuits (Antenna/GPS), PSPICE, Cadence, ADS (or eq.)
Digital Design Real-Time Software Coding Mechanical Design	Multisim Real-time C++ (or eq.), assembly language, uC/uP programming, critical timing algorithms, data interfaces (USB, Bluetooth, ethernet, etc.), DSP (particularly audio processing) CAD (Solidworks, AutoCAD), mounting/housing electrical components
PCB or Mechanical Design	PCB layout tools (Eagle, Virtuoso, PADS, etc.), mechanical design tools (AutoCAD, Solidsworks, Graphite, etc.), thermal modeling and analysis, machining and sheet metal fabrication, woodworking, soldering (iron and SMD oven), rework stations, PCB fab
Project Management Team	Scheduling, budgets, purchasing, organizing internal and external meetings, decision trees, document and software rev control
Leadership Technical	Team building, organization behavior, hiring/firing, interpersonal skills, knowing when to lead and when to follow
Writing	Project and research proposals, technical presentations, abliity to communicate thoughts with a large audience

ECE4011 rev.1 2/9/2016

Skill Levels Normalized to μ =0 σ =1 for each member with avg team skill added

Team Member	Analog Design	Digital	Real-Time Software Coding	Mechanical Design	PCB, Mechanical Design, Assembly	Project Manageme nt	Team Leadership	Technical Writing	
Radha Changela	0.6	2.0	-1.2	1.8	0.7	2.7	2.8	2.4	
Katie Roberts	1.9	3.4	0.1	-0.9	2.0	4.0	2.8	2.4	
Hubert Elly	1.9	0.7	1.4	-0.9	0.7	1.3	2.8	2.4	
Christine Saw	1.9	0.7	0.1	-0.9	0.7	1.3	2.8	2.4	
Lara Kassabian	0.6	0.7	-1.2	3.1	2.0	4.0	4.1	-0.2	
Katie Weatherwax	0.6	2.0	-1.2	0.5	2.0	4.0	4.1	3.7	
Elizabeth Herrejon	0.6	0.7	1.4	3.1	2.0	4.0	4.1	3.7	
Average Skill Level	1.2	1.5	-0.1	0.8	1.5	3.0	3.4	2.4	
Specialist Rating	0.7	1.0	1.2	1.8	0.7	1.3	0.7	1.3	Avg(StDev)=
Analysis of Team Skills	Average	Average with	Weak with Specialist	Average with	Average	Strong with Several	Strong with Several	Strong with Several	
		Specialists		Specialists		Specialists	Specialists	Specialists	

1.09

Suggestions for Team Assig	nments	
Analog Design	Katie R, Hubert, Christine	
Digital Design	Katie R, Radha, Katie W.	
Real-Time Software Coding	Christine, Hubert, Elizabeth	
Mechanical Design	Radha, Lara, Elizabeth	
PCB or Mechanical Design	Katie R. Katie W, Lara	
Project Management	Katie R. Katie W	
Team Leadership	Elizabeth, Lara	
Technical Writing	Katie W. Elizabeth, Christine, Radha	*Make sure piece sounds like one voice
	0	
	0	
	0	
	0	