Senior Design

ID	ⓘ	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1			Find Documentation and add to git/share with group	14 days	Mon 9/26/16	Thu 10/13/16		Joe,Kunal,Scott,Andre
2			**Website**	**37 days**	**Mon 9/26/16**	**Tue 11/15/16**		
3			Submit mock-ups for review	1 day	Mon 9/26/16	Mon 9/26/16		Andrew,Scott,Vijay,Ku
4			Choose pros/cons of each at meeting - Choose who will complete these tasks	1 day	Tue 9/27/16	Tue 9/27/16	3	Scott,Andrew,Vijay,Ku
5			Choose official Name	3 days	Wed 9/28/16	Fri 9/30/16	4	Vijay,Joe
6			Choose theme/colors	3 days	Wed 9/28/16	Fri 9/30/16	4	Vijay,Joe
7			**Lay out HTML pages**	**9 days**	**Mon 10/3/16**	**Thu 10/13/16**	**6**	
8			Divide up pages	4 days	Mon 10/3/16	Thu 10/6/16		Vijay,Joe
9			Create pages one by one (show here)	5 days	Fri 10/7/16	Thu 10/13/16	8	Vijay,Joe
10			Fill in JS functionality	7 days	Fri 10/14/16	Mon 10/24/16	9	Vijay,Joe
11			Finalize site before submission	17 days	Mon 10/24/16	Tue 11/15/16	10	Vijay
12			**Choose approach (machine learning or not)**	**6 days**	**Mon 10/3/16**	**Mon 10/10/16**		
13			Come up with a list of pros/cons to machine learning vs. GNU radio	5 days	Mon 10/3/16	Fri 10/7/16		
14			Choose path at meeting	1 day	Mon 10/10/16	Mon 10/10/16	13	
15			**Create git repository**	**6 days**	**Mon 9/26/16**	**Mon 10/3/16**		
16			Create repo	1 day	Mon 9/26/16	Mon 9/26/16		Vijay
17			Verify everyone has account	1 day	Tue 9/27/16	Tue 9/27/16	16	Vijay
18			Verify everyone is familiar with basic versioning commands	3 days	Wed 9/28/16	Fri 9/30/16	17	Vijay,Andrew,Kunal,Jo
19			Add existing documentation to repo	4 days	Wed 9/28/16	Mon 10/3/16	17	Vijay
20			**Agree on IDE**	**11 days**	**Mon 9/26/16**	**Mon 10/10/16**		
21			Come up with IDE options for Python/C++ on Linux	3 days	Mon 9/26/16	Wed 9/28/16		Scott,Kunal
22			List pros/cons	2 days	Thu 9/29/16	Fri 9/30/16	21	Scott,Kunal
23			Decide on IDE	6 days	Mon 10/3/16	Mon 10/10/16	22	Scott,Kunal
24			Verify Personal PCs are set up for development	8 days	Tue 10/4/16	Thu 10/13/16		Scott,Andrew,Vijay,Ku
25			Find tutorials of interest	16 days	Mon 9/26/16	Mon 10/17/16		Andrew,Kunal
26			**Set-up Environment**	**16 days**	**Mon 9/26/16**	**Mon 10/17/16**		
27			Identify which PC to use	1 day	Mon 9/26/16	Mon 9/26/16		Joe
28			Install Linux	1 day	Wed 9/28/16	Wed 9/28/16	27	Joe
29			**Set-up home network to allow external connectivity**	**8 days**	**Wed 9/28/16**	**Fri 10/7/16**		
30			Purchase new router	3 days	Wed 9/28/16	Fri 9/30/16		Joe,Scott
31			Set up VPN	3 days	Mon 10/3/16	Wed 10/5/16	30	Joe,Scott
32			Set up VNC/SSH	3 days	Wed 10/5/16	Fri 10/7/16	27	Joe,Scott
33			Install GNU Radio/VNC/UHD Driver/IDE	5 days	Tue 10/11/16	Mon 10/17/16	23,27,28	Joe
34			Verify that everyone can connect	2 days	Thu 10/6/16	Fri 10/7/16	31	Joe
35			Receive Radios	0 days	Fri 10/14/16	Fri 10/14/16		
36			Verify/Familiarize UHD Basic Command set with radios	2 days	Fri 10/14/16	Mon 10/17/16	35	
37			**Complete tutorials**	**8 days**	**Tue 10/18/16**	**Thu 10/27/16**		
38			Achieve basic working Rx (raw spectrum)	4 days	Tue 10/18/16	Fri 10/21/16	36,25	Andrew,Joe,Kunal,Sco
39			Basic FM Demodulator that takes input freq	4 days	Mon 10/24/16	Thu 10/27/16	38	Andrew,Joe,Kunal,Sco
40			Create basic TX profiles for AM & FM that take in user configurable A, f, etc...	6 days	Fri 10/28/16	Fri 11/4/16	35,37	Kunal
41			Research IQ data and present findings to group	6 days	Fri 10/28/16	Fri 11/4/16		Scott
42			Start project and upload base to git	3 days	Tue 11/1/16	Thu 11/3/16		Andrew,Joe
43			**Isolate signals**	**30 days**	**Thu 11/3/16**	**Wed 12/14/16**	**37**	
44			Read white papers	4 days	Thu 11/3/16	Tue 11/8/16		Joe
45			create block diagram	2 days	Wed 11/9/16	Thu 11/10/16	44	Joe,Scott
46			Agree on design	1 day	Fri 11/11/16	Fri 11/11/16	45	Andrew,Joe,Kunal,Sco
47			Implement in GNURadio	17 days	Mon 11/14/16	Tue 12/6/16	46	Joe,Scott
48			Create test plan	2 days	Wed 12/7/16	Thu 12/8/16	47	Joe,Scott
49			Test and record findings	4 days	Fri 12/9/16	Wed 12/14/16	48	Joe,Scott
50			**Create GNU Radio block from Machine Learning Code**	**33 days**	**Thu 11/3/16**	**Mon 12/19/16**	**37**	
51			Understand GNU Radio (blocks & python output)	9 days	Thu 11/3/16	Tue 11/15/16		Andrew
52			Understand machine learning code	9 days	Wed 11/16/16	Mon 11/28/16	51	Andrew
53			Create test plan	2 days	Tue 11/29/16	Wed 11/30/16	51,52	Andrew,Kunal
54			Agree on test plan	1 day	Thu 12/1/16	Thu 12/1/16	53	Andrew,Kunal
55			Integrate and test	15 days	Tue 11/29/16	Mon 12/19/16	52	Andrew,Kunal
56			Integrate machine learning code with isolated signals	15 days	Tue 12/20/16	Mon 1/9/17	43,50	Andrew,Joe,Kunal,Sco
57			Profit	1 day	Wed 11/2/16	Wed 11/2/16		Andrew,Joe,Kunal,Sco