[Open-Source CEM and Additive Manufacturing, Year 1]
[Whittiter College]
[Profs. J. Hanson, F. Park, S. Corba, S. Lagan, G. Finer]
[Nayeli Camacho, Shaun Dunnick]

39%

Wednesday, June 7, 2023

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VRS	Task Names	Responsible Colleagues	Start	Net Work Days	Finish	% Con	mplete	Calendar days	Days Complete	Days Remainin
			01-Jul-2024	300	23-Aug-2025	A CO.	39%	419	118	301
	Hardware Acquisition (Weight=10%)	[Prof. Hanson, N. Camacho, F. Park]	07-Jan-2024	149	01-Aug-2024		100%	208	56	152
	3D Printer Acquisition Obtain quotes	[Prof. Hanson]	01-Jul-2024	6	08-Jul-2024		100%	8	6	2
	Complete purchase	[N. Camacho]	10-Jul-2024	4	15-Jul-2024		100%	6	4	2
	3D Printer Filament Acquisition	[
	Obtain quotes	[Prof. Hanson]	01-Jul-2024	6	08-Jul-2024		100%	8	6	2 2
	Complete purchase GPU/Multicore Server	[N. Camacho]	10-Jul-2024	4	15-Jul-2024		100%	6	4	2
	Perform market comparison	[F. Park]	01-Jul-2024	24	01-Aug-2024		100%	32	24	8
	Obtain quotes	[Prof. Hanson]	01-Aug-2024	10	14-Aug-2024		100%	14	10	4
	Complete purchase	[N. Camacho]	14-Aug-2024	2	15-Aug-2024		100%	2	2	0
	RF Lab Hardware				-					
	RF cables and connectors	[Prof. Hanson]	01-Jul-2024	24	01-Aug-2024		100%	32	24	8
	Recruitment (Weight=5%)	[Prof. Hanson]	23-Aug-2024	22	23-Sep-2024		100%	32	22	10
	Standard undergraduate recruitment procedure Undergraduate STEM researchers									
	Undergraduate STEM researchers	[Prof. Hanson]	23-Aug-2024	22	23-Sep-2024		100%	32	22	10
	Undergraduate app/code designers	[Prof. Hanson]	23-Aug-2024	22	23-Sep-2024		100%	32	22	10
	Run Published CEM Codes (Weight=5%)	[Prof. Hanson, Undergraduates 1,2]	23-Sep-2024	6	30-Sep-2024		100%	0	12	-4
	Initial CEM Training, Linux Acets.	[Fior. Hailson, Olidergraduates 1,2]	23*3ep*2024	0	30-3ep-2024			0	12	~*
	CEM Training	[Prof. Hanson, Undergraduates 1,2]	23-Sep-2024	6	30-Sep-2024		100%	8	6	2
	Account creation	[Prof. Hanson]	23-Sep-2024	6	30-Sep-2024		100%	8	6	2
	Updating CEM Code Unpack and test original code	[Prof. Hanson]	25-Sep-2024	10	08-Oct-2024		100%	14	10	4
	Unpack and test original code	[Fror. Flanson]	25-5ep-2024	10	08-Oct-2024		100%	14	10	4
	Course Integrations (Weight=10%)	[Profs. Hanson, Lagan, Zorba, Piner, and Park]	01-Jul-2024	40	23-Aug-2024		44%	54	40	14
	Physics Courses									
	Algebra-Based Physics II	[Prof. Hanson]	01-Jul-2024	40	23-Aug-2024		100%	54	40	14
	Calculus-Based Physics II Optics	[Prof. Hanson] [Profs. Zorba and Hanson]	01-Jul-2024 01-Jul-2024	40 40	23-Aug-2024 23-Aug-2024		0% 0%	54 54	0	54 54
	Electromagnetic Theory	[Prof Hanson]	01-Jul-2024	40	23-4110-2024		100%	54	40	
	Computational Physics	[Profs. Lagan and Hanson]	01-Jul-2024	40	23-Aug-2024		0%	54	0	14 54
	Computer Science Courses									
	Computer Logic and Digital Circuit Design	[Prof. Hanson]	01-Jul-2024	40	23-Aug-2024		100%	54	40	14
	Digital Signal Processing	[Prof. Hanson]	01-Jul-2024	40	23-Aug-2024		100%	54 54	40	14
	Introduction to Data Science with Python Machine Learning	[Profs. Hanson and Piner] [Profs. Hanson and Park]	01-Jul-2024 01-Jul-2024	40 40	23-Aug-2024 23-Aug-2024		0% 0%	54	0	54 54
	American Learning	[11013.1 milest mid 1 mk]	01-jul-2024	40	25-7108-2024		0,0			
	Primary CEM Research, Semesters 1 and 2 (Weight=10%)	[Prof. Hanson, Undergraduates 1,2]	23-Aug-2024	190	15-May-2025		68%	266	120	146
	CEM Simulations, Data Visualization									
	3D visualization of RF horn design	[Prof. Hanson, Undergraduate 1]	23-Sep-2024	60	15-Dec-2024		100%	84	60	24
	Time-domain computations, phase analysis S-Parameters analysis	[Prof. Hanson, Undergraduate 1] [Prof. Hanson, Undergraduate 1]	23-Sep-2024 23-Sep-2024	60	15-Dec-2024 15-Dec-2024		100% 100%	84 84	60 60	24 24
	Inclusion of coaxial cable in simulation	[Prof. Hanson, Undergraduate 1]	23-Sep-2024 23-Sep-2024	60	15-Dec-2024		50%	84	30	54
	Embed in various media	[Prof. Hanson, Undergraduate 1]	23-Sep-2024	60	15-Dec-2024		50%	84	30	54
	Machine Learning Optimization									
	Background research for algorithms	[Prof. Hanson, Undergraduate 2]	23-Sep-2024	169 169	15-May-2025 15-May-2025		100% 100%	235 235	169 169	66
	Learning genetic programming styles CEM implementation with basic RF horn	[Prof. Hanson, Undergraduate 2] [Prof. Hanson, Undergraduate 2]	23-Sep-2024 23-Sep-2024	169	15-May-2025 15-May-2025		100%	235	84	66 151
	RF antenna optimization	[Prof. Hanson, Undergraduate 2]	23-Sep-2024	169	15-May-2025		0%	235	0	235
	Additive Manufacturing, Semesters 1 and 2 (Weight=10%)	[S. Dunnick, Undergraduate 3]	23-Aug-2024	190	15-May-2025		33%	266	120	146
	Printing with PLA Filament Updating prior designs	[S. Dunnick, Undergraduate 3]	23-Sep-2024	60	15-Dec-2024		100%	84	60	24
	Practice file format conversion	[S. Dunnick, Undergraduate 3]	23-Sep-2024	60	15-Dec-2024		100%	84	60	24
	Print test object	[S. Dunnick, Undergraduate 3]	23-Sep-2024	60	15-Dec-2024		100%	84	60	24
	Print PLA antenna model	[S. Dunnick, Undergraduate 3]	23-Sep-2024	60	15-Dec-2024		25%	84	15	69
	Printing with Electrifi Filament Print test object	(S. Domaido Hadamardonta 2)	15-Jan-2025	87	15-May-2025		0%	121	0	121
	Print test object Perform resistivity measurements	[S. Dunnick, Undergraduate 3] [S. Dunnick, Undergraduate 3]	15-Jan-2025 15-Jan-2025	87	15-May-2025 15-May-2025		0%	121	0	121
	Print simple antenna	IS Dunnick Undergraduate 31	15-Jan-2025	87	15-May-2025		0%	121	0	121
	Print complex antenna	[S. Dunnick, Undergraduate 3]	15-Jan-2025	87	15-May-2025		0%	121	0	121
	Application Development Computer 1 and Computer 2	(Deef Hannes Understading	22 Aug 2024	190	15 May 2025		48%	266	141	125
	Application Development, Semesters 1 and 2 (Weight=10%) Creating Project Plan with Students	i ir ioi. riaiison, Undergraduate 41	23-Aug-2024	190	15-May-2025		45%	266	141	
	Creating kanban taskflow	[Prof. Hanson]	23-Aug-2024	22	23-Sep-2024		100%	32	22	10
	Experimenting with Android SDK	[Undergraduate 4]	23-Aug-2024	81	15-Dec-2024		100%	115	81	34
	Updating prior code Designing Visual Environment	[Prof. Hanson]	23-Aug-2024	22	23-Sep-2024		100%	32	22	10
	Updating prior designs	[Undergraduate 4]	23-Aug-2024	81	15-Dec-2024		10%	115	8	107
	Displaying content on Android app	[Undergraduate 4]	15-Jan-2025	87	15-May-2025		10%	121	8	113
	Primary CEM Research, Summer 2025 (Weight=20%) CEM Simulations, Data Visualization	[Prof. Hanson, Undergraduates 1,2]	15-May-2025	72	23-Aug-2025		0%	101	0	101
	Time-domain computations, phase analysis	[Prof. Hanson, Undergraduate 1]	15-May-2025	72	23-Aug-2025		0%	101	0	101
	S-Parameters analysis	[Prof. Hanson, Undergraduate 1]	15-May-2025	72	23-Aug-2025		0%	101	0	101
	Inclusion of coaxial cable in simulation	[Prof. Hanson, Undergraduate 1]	15-May-2025	72	23-Aug-2025		0%	101	0	101
	Embed in various media Machine Learning Optimization	[Prof. Hanson, Undergraduate 1]	15-May-2025	72	23-Aug-2025		0%	101	0	101
	Machine Learning Optimization 3D visualization of optimized antenna	[Prof. Hanson, Undergraduate 2]	15-May-2025	72	23-Aug-2025		0%	101	0	101
	Explore array optimizations in ice, Hpol	[Prof. Hanson, Undergraduate 2]	15-May-2025	72	23-Aug-2025		0%	101	0	101
	Additive Manufacturing, Summer 2025 (Weight=20%) Printing with Electrifi Filament	[S. Dunnick, Undergraduates 1,3]	15-May-2025	72	23-Aug-2025		0%	101	0	101
	Updating prior designs	[S. Dunnick, Undergraduate 3]	15-May-2025	72	23-Aug-2025		0%	101	0	101
	Continue printing complex antenna	[S. Dunnick, Undergraduate 3]	15-May-2025	72	23-Aug-2025		0%	101	0	101
	Real S-parameter measurement	[Prof. Hanson, Undergraduate 3]	15-May-2025	72	23-Aug-2025		0%	101	0	101
	Real radiation pattern measurement	[Prof. Hanson, Undergraduate 3]	15-May-2025	72	23-Aug-2025		0%	101	0	101

