

WBS Task Names		Responsible Colleagues	Start	Finish	% Complete	Calendar days	Days Complete	Days Remaining	Jul 2025	Aug 2025	Sept 2025	Oct 2026	Nov 2025	Dec 2025	Jan 2026	Feb 2026	Mar 2026	Apr 2026	May 2026	Jun 2026	Jul 2026	Aug 2026
Recruitment (Weight=5%)		[Pmt. Hanson]	23-Aug-2025	260	23-Aug-2026	27%	366	71	295													
Standard undergraduate recruitment procedure			23-Aug-2025	22	23-Sep-2025	100%	32	66	-34													
Undergraduate STEM researchers		[Prof. Hanson]	23-Aug-2025	22	23-Sep-2025	100%	32	22	10													
Undergraduate app/code designers		[Prof. Hanson]	23-Aug-2025	22	23-Sep-2025	100%	32	22	10													
Undergraduate Spanish translator		[Prof. Hanson]	23-Aug-2025	22	23-Sep-2025	100%	32	22	10													
Primary CEM Research, Semester 3 (Weight=15%)		[Pmt. Hanson, Undergraduates 1,2]	23-Aug-2025	81	15-Dec-2025	64%	115	416	-301													
CEM Application to UHE Neurotro Research																						
Explore horizontal array polarization in ice		[Prof. Hanson, Undergraduate 1]	23-Aug-2025	81	15-Dec-2025	100%	115	81	34													
Characterize response calculation		[Prof. Hanson, Undergraduate 1]	23-Aug-2025	81	15-Dec-2025	100%	115	81	34													
S-Parameters analysis		[Prof. Hanson, Undergraduate 1]	23-Aug-2025	81	15-Dec-2025	100%	115	81	34													
Inclusion of coaxial cable in simulation		[Prof. Hanson, Undergraduate 1]	23-Aug-2025	81	15-Dec-2025	50%	115	40	75													
Embed in realistic ice profile		[Prof. Hanson, Undergraduate 1]	23-Aug-2025	81	15-Dec-2025	10%	115	8	107													
Machine Learning Optimization																						
Search for horizontal polarization optimization		[Prof. Hanson, Undergraduate 2]	23-Aug-2025	81	15-Dec-2025	100%	115	81	34													
Adjusting genetic programming style		[Prof. Hanson, Undergraduate 2]	23-Aug-2025	81	15-Dec-2025	50%	115	40	75													
Testing new algorithms		[Prof. Hanson, Undergraduate 2]	23-Aug-2025	81	15-Dec-2025	5%	115	4	111													
Additive Manufacturing, Semester 3 (Weight=15%)		[S. Dunnick, Undergraduate 3]	23-Aug-2025	81	15-Dec-2025	13%	115	40	75													
Printing with ElectriFt filament																						
Continue print progress from Summer 2025		[S. Dunnick, Undergraduate 3]	23-Aug-2025	81	15-Dec-2025	25%	115	20	95													
Modify designs to accommodate Filop results		[S. Dunnick, Undergraduate 3]	23-Aug-2025	81	15-Dec-2025	25%	115	20	95													
Begin array integration		[S. Dunnick, Undergraduate 3]	23-Aug-2025	81	15-Dec-2025	0%	115	0	115													
RF bench testing of prototype array		[S. Dunnick, Undergraduate 3]	23-Aug-2025	81	15-Dec-2025	0%	115	0	115													
Application Development, Semesters 3,4 (Weight=20%)		[Pmt. Hanson, Undergraduate 4]	23-Aug-2025	190	15-May-2026	34%	266	190	116													
Creating Project Plan with Student																						
Update Kanban taskflow		[Prof. Hanson]	23-Aug-2025	22	23-Sep-2025	100%	32	22	10													
Implementation of STM content in Android SDK		[Undergraduate 4]	23-Aug-2025	81	15-Dec-2025	100%	115	81	34													
Designing Visual Environment																						
Integrating visual content on Android app		[Undergraduate 4]	15-Jan-2026	87	15-May-2026	50%	121	43	78													
Experimenting with machine learning integration		[Undergraduate 4]	15-Jan-2025	87	15-May-2025	5%	121	4	117													
Publication in Electronics, Semester 4 (Weight=25%)		[Pmt. Hanson, Undergraduates 1,2,3, N. Camacho]	15-Jan-2026	157	23-Aug-2026	0%	221	0	221													
Compiling results, writing the article																						
Creating outline, writing text, gathering references		[Prof. Hanson]	15-Jan-2026	87	15-May-2026	0%	121	0	121													
Gathering results and polishing figures		[Undergraduates 1,2,3]	15-Jan-2026	87	15-May-2026	0%	121	0	121													
Publishing																						
Corresponding with referees and editor		[Prof. Hanson]	15-May-2026	71	23-Aug-2026	0%	101	0	101													
Paying associated fees		[M. Camacho]	15-May-2026	71	23-Aug-2026	0%	101	0	101													
CEM/D Print Summer Research 2026 (Weight=20%)		[Pmt. Hanson, S. Dunnick, Undergraduate 1]	15-May-2026	71	23-Aug-2026	0%	101	0	101													
Finish backlog of prior work																						
Publication, HFVD analysis, machine learning optimizations		[Prof. Hanson, Undergraduate 1]	15-May-2026	71	23-Aug-2026	0%	101	0	101													
Prototype testing																						
Practicing design loop: CEM to print		[Prof. Hanson, S. Dunnick, Undergraduate 1]	15-May-2026	71	23-Aug-2026	0%	101	0	101													
Integration of prototype array		[Prof. Hanson, S. Dunnick, Undergraduate 1]	15-May-2026	71	23-Aug-2026	0%	101	0	101													
Archiving progress																						
Creating official public code repository		[Prof. Hanson, Undergraduate 1]	15-May-2026	71	23-Aug-2026	0%	101	0	101													
CAD design storage		[Prof. Hanson, Undergraduate 1]	15-May-2026	71	23-Aug-2026	0%	101	0	101													