Griffin Abbott

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Fourth year mechanical engineering student interested in aerospace seeking a summer internship or co-op.

Education

B.S Mechanical Engineering Michigan Technological University (MTU), Houghton, MI Cumulative GPA - 3.63 Minor - Aerospace Engineering	May 2023 Department GPA - 3.22
Work Experience	
Systems Engineering Co-op – Northrop Grumman Innovation Systems Project: Landsat 9 Earth Observation Satellite	Jun. 2020 - present
 Verified requirements for payload deck and structures and mechanism subsyst 	em
 Located and reviewed verification documentation to satisfy customer requirer Imager 2 (OLI-2) and Thermal Infrared Sensor 2 (TIRS-2) 	nents for Operational Land
Created and presented requirement change requests to Engineering Review Bo Tracked requirement statuces and undeted metrics for weakly systemetry report	bard
 Indexed requirement statuses and updated metrics for weekly customer report Interfaced with sustamer on varification rejections and received them for recul 	S
Interfaced with customer on vernication rejections and resolved them for result Created a Contract Data Pequirements List on a 16 Day Design Peference Ca	of spacecraft operations
 Created a contract bata Requirements List on a 10 bay besign Reference Ca based on a previous one for the Landsat Data Continuity Mission (LDCM) Supported spacecraft-level thermal vacuum integration and testing 	
Student Front of House Manager – MTU Rozsa/McArdle Theater	Sept. 2021 - present
Theater Technician – MTU Rozsa/McArdle Theater	Sept. 2019 - present
Virtual Reality Developer – WMU Office of Information Technology	May 2019 - Aug. 2019
Broomball Committee Special Tasks – MTU Inter-Residence Housing Council	Sept. 2021 - present
Project Experience	
Chassis Subteam – Mining INnovations Enterprise MTU	Aug. 2020 - present
Project: NASA Robot Mining Competition: Lunabotics	
 Designed and fabricated 3d printed dust covers for structural and drive-train c 	omponents
Assessed chassis structure for lunar regolith entry points and methods of seali	ng these points
Rocket Structures and Design – Keweenaw Rocket Range MTU Project: Radio systems for Intercollegiate Rocket Engineering Competition payloa	Sept. 2018 - Mar. 2020 ad and ground station
Researched and implemented rocket transmitter and ground station receiver s	vstems
 Worked on construction of fiberglass rocket body and payload enclosure 	ysterns
Project: Design and construct a rocket and launch system using only Alka-Seltze	r and water for propulsion
• Designed rocket body and launch tube structures to accommodate payload and	d recovery systems
 Sourced construction materials for and constructed rocket body using fiberglas 	s and 3D printed parts
 Designed launch tube rocket carriage and lubrication system 	
Flight Computer Design/Data Processing – HAB Research Project KAMSC Project: Design and build a high altitude balloon (HAB) to collect sensor data, pict	Jan. 2017 - May. 2018 sures, and video, team of 4
 Soldered configured and calibrated senors for temperature pressure radiatio 	n and ozone concentration
 Wrote code for GPS tracker, radio transmission, and sensor measurement on a Processed and analyzed sensor data for a paper and a presentation to the Kalar 	n Arduino microcontroller
Skills	
Computer/Technical	
Discrete Mathematics, Unitv3D XR Development, Computer Assembly, Soldering, Apa	ache Web Server Operation.
NX, Fusion 360, 3D Printing, AMESim, MS Word & Excel, Rational DOORS, Adobe CO	C, AstroRT
Programming Languages – C#, C++, C, Java, Python, MATLAB, Rockstar	
Markup Languages – HTML, CSS, LATEX	
Technical Theater	
Set Design/Construction, Sound Board, Stage Supervisor, Lighting, Puppets, Live Vi	deo, Genie Lift Certified
Co-Curricular Involvement	

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Pi Tau Sigma Mechanical Engineering Honor Society – Sigma Iota Chapter Member	Nov. 2020 - present
Broomball – Off-campus Competitive League	Dec. 2018 - present
Swing Club – Vice-President	Apr. 2020 - present
Airsoft Club	Sept. 2018 - present