Alison Alexsy

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EDUCATION

Michigan Tech University **BS Mechanical Engineering**Minor: Aerospace Engineering

Houghton, MI Graduated Dec 2017

PROFESSIONAL EXPERIENCE

Aerospace Enterprise Senior Design

January 2017 - December 2017

Project: Recertification of Aerospace Clean Room

Mission: Design an array of sensor implementation within an ISO 8 classified cleanroom by providing continual real-time monitoring of environmental conditions including humidity, air pressure, temperature and airflow velocity.

- Powered sensor system using circuit boards fabricated from design to production within tight six-month deadline
- Integrated sensor design with Raspberry Pi controlled IoT project builder, resulting in increased ergonomics

Ground Support Equipment Team Member

May 2015 - December 2017

MTU Aerospace Enterprise

- Aided preliminary conception, design and integration of satellite electrical ground support equipment
- Created, maintained and monitored project scope, including schedule and deliverables
- Developed testing documentation and procedures, upholding mission standards and requirements from sponsors including the Department of Defense and NASA

Structures Team Member

August 2013 - May 2015

MTU Aerospace Enterprise

- Utilized tools such as SolidWorks and Siemens NX to design structural elements of spacecraft components
- Performed FEA analyses on flight hardware and structures, optimizing mass without compromising strength
- Designed for manufacturability, extreme environment survival, and launch vehicle compatibility in mind

SELECTED TECHANICAL SKILLS

0	AutoCAD	0	LabVIEW	0	MATLAB
0	GD&T	0	LMS Test.Lab	0	Simulink
0	Siemens NX	0	Autodesk EAGLE	0	Bash Scripting
0	SolidWorks	0	MS Project	0	Linux
0	Altair Hyperworks	0	LMS AMESim	0	Ruby

WORK EXPERIENCE

Telecom Physical Plant Location Technician

August 2016 - December 2017

Michigan Tech Information Technology

- Managed telecommunications updates for 100 campus building physical plant AutoCAD location maps
- Supported Pinnacle database comprising of 100,000+ network data jacks

PROFESSIONAL ASSOCIATIONS

Society of Women Engineers (SWE): Member WMTU Radio Station: Head of Marketing, Member Radio Astronomy Team (RATs): President, Member

August 2013 – Present August 2013 – December 2017

• Performed radio scans from student built 18-ft. radio telescope

Led team as first female president in 20 years of club's existence

September 2011 - June 2013