

William Moore

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Manufacturing student with hands-on experience building flight hardware, propulsion components, and integrated vehicle systems. Skilled in composites, CNC machining, and test operations.

WORK EXPERIENCE

President/Chief Project Engineer

My job as a Chief Project Engineer is to build and teach a team to Design, Manufacture, Assemble, Test, and Fly Sounding Rockets at International Competitions. Working under the college to facilitate international competitions for students for purposes of education and experience. Projects included 45lb Mach 1 capable launch vehicles designed, built, and flown from scratch.

SEDS USA Austin Community College Chapter

09/2023 - Present

- Built and trained a team of up to 12 personnel to work on year-long engineering projects
- Examined engineering drawings and specifications as required to fabricate and test aerospace components
- Designed and manufactured electronics bays, airframes, a large variety of prototype 3D printed and composite components
- Constructed test facilities for rocket parts and systems according to specifications.
- Installed flight computers, electrical harnesses, instrumentation, and other subassemblies and components
- Project planned and coordinated an engineering team to a successful year-long project completion and launch

CNC Machinist Internship

Using top-grade CNC MAZAK and HAAS Machines to produce high-quality Prototype Aerospace parts for testing and flight of advanced phased-array antenna systems while producing parts for customers such as NASA and Raytheon.

Cesium Astro

11/2023 - 03/2024

- Managed tooling of machines along with maintaining their lifespan for quality assurance
- Coordinated with engineers to further develop their designs for improved DFM
- Measured parts for compliance with schematics and AS9100 requirements
- Implemented lean manufacturing principles to increase CNC machine shop throughput
- Used item management software to order, maintain, and receive work orders for efficient part management.
- Working in ESD-safe environments with ITAR and EAR Stipulations
- Working in a fast-paced Prototyping environment with re-works and considerable overtime

SKILLS

Key Skills & Traits

- Additive Manufacturing
- ASME
- CAD
- CAM
- Composites
- Data Analysis
- DFA
- DFM
- Electronics
- GD&T
- Hand Tools
- Lean Manufacturing
- Machining
- Metrology
- Soldering
- Team Leadership
- Welding

Software Proficiency

- 3DS Max
- Acumatica
- Adobe Suite
- Autodesk Inventor
- Cura
- EagleCad
- Easy EDA
- Google Docs
- Google Suite
- MasterCAM
- Monday
- RockSim (Flight Simulation Software)
- Solidworks CAM
- Unity
- Zoom

EDUCATION

Bachelors of Advanced Manufacturing & Engineering Technologies

Austin Community College 05/2027
In Progress

Associates of Advanced Manufacturing & Engineering Technologies

Austin Community College 07/2024

CERTIFICATIONS

Certificate in Manufacturing Engineering Technology : Advanced Manufacturing Specialization Level I

Austin Community College

PROJECTS

Various Sounding Rocket Projects

Skills developed with my projects:

- Developed flight hardened systems with multi-layered redundancies
- Gained manufacturing & fabrication skills by building launch vehicles and small scale rocket engines
- Learned risk management engineering techniques and applied them to flight hardware
- Built Avionics bays, composite structures, recovery systems, solid rocket motors, and tracking equipment
- Diagnosed and maintained test setups and equipment to detect malfunctions.

LEADERSHIP

President of ACC’s Rocketry Team

- **Chief Project Engineer**
- Competing in International Competitions and Teaching Engineers how to build Rockets
- Built the world's first two-year institution Hybrid rocket engine propulsion laboratory

AWARDS & SCHOLARSHIPS

THRIVE award

Austin Community College