

William Moore

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CORE COMPETENCIES

Key Skills & Traits: CAD, CAM, 3D Printing, Welding, Electronics, Soldering, Schematics Reading Fluency, Instrumentation Tools, Hand Tools, Data Analysis, Metal & Wood Working, Team Leadership, Punctual, Hardworking and Reliable

Software Proficiency: Inventor, MasterCAM, Cura, Adobe Suite, Google Suite, Monday, Google Docs, Zoom, Unity, 3DS Max, RockSim (Flight Simulation Software), EagleCad, Easy EDA

PROFESSIONAL EXPERIENCE

Recovery Lead | Hot Nozzle Society | June 2022 – Present

The Hot Nozzle Rocket events attract attendees such as NASA Astronauts, Celebrity Youtubers, and Rocketry Enthusiasts from around the country, in which we are launching hundreds of high-powered rockets on a tight timeline in vast open space. This requires a swift, safe, and coordinated recovery effort from an experienced team. Some of my responsibilities as the Recovery Team Lead are as follows:

- Managed a team of up to seven recovery personnel at a time in the field
- Coordinated with Range Safety Officer to ensure a safe launch line and steered recovery teams clear of the line
- Locate and physically recover rockets up to 1 mile away in unpredictable terrain conditions
- Maintained real-time communication systems to ensure that the base and recovery teams were in sync
- Coordinated with Drone operators to assist in recovery operations.
- Assisted in safety measures during the launch, such as manning the towed firefighting bison, assembling launch structures, and filling and prepping fire extinguishers
- Trained assistant recovery technicians and rocket owners on recovery operations

Crane Operator | Moore Signs | 2018 –2021

Designated operator for heavy equipment onsite in industrial and public commercial spaces. Worked overtime as needed in extreme weather conditions and supported the installation and electrical crews in completing their signage projects.

- Operated large machinery to workplace and safety standards.
- Controlled hydraulic outriggers and chose proper positioning to ensure stability for the crane's telescoping and lifting functionality.
- Worked cooperatively with the ground crew to position material and fixtures as needed for the lift
- Stocked the crane truck with all necessary materials for daily work orders, including electronic parts, hand tools, fragile materials, and safety equipment such as rigging harnesses organized neatly for easy access
- Assisted ground crew with the basic wiring of sign components to prep for wall installation
- Followed detailed schematics to drill into building structures and install attachments
- Operated various powered machine tools as required

EDUCATION & CERTIFICATIONS

Degree | Austin Community College, Austin (in progress)
Bachelors of Advanced Manufacturing

Certification | Austin Community College
Advanced Manufacturing Specialist Level 1 Certification

HOBBIES & EXPERIENCE

My Portfolio can be found at texasrocketeer.com

Skills developed with my hobbies:

- Examined engineering drawings and specifications as required to fabricate and test aerospace components
- Fabricated electronics bays, airframes, a large variety of 3D printed components
- Constructed test facilities for rocket parts and systems according to specifications.
- Installed flight computers, electrical harnesses, instrumentation, and other subassemblies and components
- Diagnosed and maintained test setups and equipment to detect malfunctions.

Noteworthy Highlights

Designed, Fabrication, Tested & Launched My Custom Own Rockets
Awarded Both and Level 1 & Level 2 High Power Rocket Certification from NAR & TRA
President of ACC's Rocketry Team, Competing in International Competitions and Teaching Engineers how to build Rockets