

Richard Moyer

Phone: (276) 206-9873 • Email: ramoyer@alum.mit.edu • Portfolio: www.ramoyer.com

Summary:

MIT Mechanical Engineering Graduate

Team player with leadership experience

Driven • Results Oriented • Attentive to details • Takes Initiative

Education

Bachelor of Science in Mechanical Engineering

Massachusetts Institute of Technology • Jun 2019

Relevant Experience

Subsea Field Engineer

Schlumberger • Cairo, Egypt • Nov 2019-Mar 2020

- Maintained and operated subsea equipment for offshore oil and gas development

MIT EMS EMT/Operations Director

Massachusetts Institute of Technology • Jan 2017-Sep 2019

- Student staffed 24/7 ambulance service with 50 members
- Operated in downtown Boston and Cambridge alongside Boston EMS, Cambridge Fire, and other agencies
- Led a team of 5 operations officers, ultimately responsible for all operations of the organization
- Duties included creating vehicle specifications, managing crew discipline, troubleshooting telecommunications, working with outside contractors, creating training programs, etc

Yo-Yo Manufacturing Lab

Cambridge, MA • Summer 2017

- Worked in a team of 6 students to create and mass manufacture unique yo-yos
- Created a conceptual design, produced CAD and CAM, machined our molds, and tracked production stats
- Final product consisted of mass manufacture of 6 unique thermoformed or injection molded parts + hardware

Hydrogen Powered Generator

MIT Beaver Works • Spring 2018

- Team of 4 students modified an engine to run on hydrogen fuel and generate electricity
- Designed and built hardware and software to create a functioning system
- Created our own actuator circuitry, engine control unit, and control algorithms

Combustion Chamber Design

MIT Institute for Soldier Nanotechnologies • Jan 2018

- Designed and manufactured 500 watt propane micro-combustors
- Operating temperature of 1100°C, entire assembly required to be gas-tight in a vacuum
- Studied flame propagation, heat transfer, and thermofluids modeling, with Solidworks and other tools

Skills:

Software

- Solidworks • Fusion 360 • Matlab • Arduino • C • Real time systems • Microsoft Office • HTML • CSS

Circuit Design

- Past projects: Doppler Sonar • RFID Emulator • Engine Control Unit • Autonomous Robotics

Hardware

- Design for manufacturing • CNC Machining • Injection molding • Thermoforming • Vacuum Brazing