

Michael J. Gray

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EDUCATION

UNIVERSITY OF COLORADO BOULDER

Bachelor of Science in Mechanical Engineering, Minor in Engineering Management, May 2024

GPA: 3.53

TECHNICAL SKILLS

SolidWorks Mechanical Design Associate Level, AutoCAD, Microsoft Office, Circuit Design and Analysis, MATLAB, C++, Project Management, Arduino, Stepper and Servo Motors, Laser Cutting, 3D Printing, Manufacturing

WORK EXPERIENCE

COLLEGIATE FIELD STAFF, Navigators Christian Nonprofit MAY 2024 - PRESENT

- Raised over \$60,000 to support the ministry at CU Boulder.
- Mentored 7-10 college students weekly and taught groups of 80+.
- Led weekly Bible studies and monthly events for 50+ people independently and with teams.
- Managed tasks and communicated regularly with supervisor.

MECHANICAL ENGINEER INTERN, Altius Space Machines MAY 2023 - AUGUST 2023

- Designed, prototyped, tested, and assembled demo housing for spacecraft connection port.
- Conducted extensive force, cycle, and vibration testing on flight-ready hardware.
- Manufactured parts via mill and 3D printer; collaborated with experienced engineers.
- Company acquired by Voyager Space.

MAINTENANCE STAFF, YMCA MAY 2021 - AUGUST 2021 and MAY 2022 - AUGUST 2022

- Maintained buildings and grounds across 8,000-acre property with a 15-person team.
- Developed communication skills and independently planned efficient workdays.

ENGINEERING PROJECTS

SENIOR DESIGN PROJECT R.O.C.K. [MCEN 4045 SENIOR DESIGN], SEPTEMBER 2023 – MAY 2024

- Project manager for a 10-person team creating a 3-stage sensing system for the U.S. Army.
- Designed, 3D printed, and tested housing, launch tube, and sensor mounts in SolidWorks.
- Led project meetings, deadlines, test plans, assembly, and live demos.
- Project met all design requirements; client impressed.

DRILL POWERED SCOOTER [MCEN 3025 COMPONENT DESIGN], SEPTEMBER 2022 – DECEMBER 2022

- Managed six-person team designing a cordless drill-powered vehicle for a 30-minute endurance race.
- Optimized for light weight, high torque, and simple frame design.

EXTRACURRICULAR EXPERIENCE

NASA JET PROPULSION LABORATORY SPACE ACADEMY AUGUST 2019 - NOVEMBER 2019

- Designed and tested launch and landing devices for an enclosed computer.
- Developed presentation and team management skills.
- Awarded Most Accurate Launcher.

ACCOMPLISHMENTS

FUNDAMENTALS OF ENGINEERING (FE) EXAM – PASS MARCH 2024

- [Result Verification Link](#) or tinyurl.com/3pfw5jym

SOLIDWORKS MECHANICAL DESIGN ASSOCIATE LEVEL APRIL 2021

SCOUTS BSA – EAGLE SCOUT MARCH 2014 - NOVEMBER 2019

- Earned Bronze and Gold Eagle Palms with 33 merit badges (required 21).
- Elected Senior Patrol Leader; led 200+ scout troop for one year.