

Contact

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Top Skills

Programming
Computer-Aided Design (CAD)
Computer Automated Machining

Mitchell Hayes

Detroit Metropolitan Area

Summary

I have interests in the fields of mechanical and electrical engineering, aeronautics, and entrepreneurship. I am currently looking for a full time mechanical engineering position in the field of transportation or aerospace.

Experience

SpaceX

Starship Vehicle Engineering Intern

May 2020 - Present (4 months)

Boca Chica, Texas

Michigan Baja Racing

Frame Design Leader

September 2018 - Present (2 years)

- Utilize NX to design the rear frame for 2019-2020 off-road race vehicle
- Design and manufacture the chassis welding jig to hold desired tolerances
- Verify design requirements using finite element analysis and various testing methods
- Present alongside other team leadership at weekly team meetings

Nexteer Automotive

EPS Elec. Assembly & Testing Intern

May 2019 - August 2019 (4 months)

Saginaw, Michigan Area

- Designed and tested a calibration & verification device for an end of line noise test machine
- Utilized LabVIEW to program inertial shakers to output force profile using closed loop system
- Redesigned a gap check station on a high volume E.P.S. assembly line for accuracy and accessibility improvements
- Researched and coordinated testing of multiple thermal interface materials for potential switchover

Michigan State University
Programming Intern
June 2017 - August 2017 (3 months)
Midland, MI

- Created a Python program that utilized a neural network to classify biofuels
- Designed a graphical user interface and utilized a nuclear magnetic resonance machine
- Helped sustain a team environment and assisted peers when needed

Ignite the Light Fireworks
Salesman/Setup Crew
June 2016 - July 2016 (2 months)
Bay City, Michigan

- Setup and maintained daily inventory
- Tended to customer needs and questions
- Completed cashier and money handling responsibility

Education

University of Michigan
Mechanical Engineering · (2018 - 2021)

H. H. Dow High School
Math, Science, and Business · (2014 - 2018)