

Ryan C. Cape

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OBJECTIVE

To obtain a full-time position in engineering, design, manufacturing, mechanics, astronautics, or similar field, leveraging my education, experience, and communication skills.

EDUCATION

University of Wisconsin – Madison
Bachelors Engineering Mechanics and Astronautics

GRADUATION MAY 2019

GPA - 3.03

EXPERIENCE

Tesla *Technical Deployment Intern, Supercharger Team*

FREMONT, CA • SUMMER 2018

- Spearheaded the Mobile Supercharger skid design and production projection, which involved supplier management and oversight, logistics, budgeting, installation guidance, FEA, and mechanical design of ten manufactured prototypes.
- Created, organized, and documented parts that are utilized in a BOM for Supercharger construction, ultimately leading to an internal parts catalog and structure for our global regions.
- Produced a system and template for evaluating contractor Key Performance Indices.
- Communicated with contractors at Supercharger sites to inspect and learn about the construction process.

Nelson Global Products *Customer Engineer Co-op*

STOUGHTON, WI • JUNE 2016 - AUGUST 2017

- Generated models and drawings in Inventor, PRO-E, AutoCad, and SolidWorks
- Produced sales outlines and fabrication prints for manufacturing
- Communicated with customers on a daily basis and provided insight regarding the GT Exhaust & Silex product line
- Completed time-sensitive Engineering Change Orders (ECOs) worth up to \$500,000

UW-Madison Baja Team *Chassis Design Member*

MADISON, WI • SPRING 2016

- Manufactured the gas and break pedals, belly pan, and the side panels for the vehicle
- Designed the rear hitch in SolidWorks to replace previous failed hitch tab
- Presented the chassis design report to a panel of judges at SAE Baja California, where our car took 4th overall out of 100+ schools

Applewood Drywall *Drywaller*

MILWAUKEE, WI • SUMMER 2015

- Transported and loaded materials to job sites, hung drywall, and operated forklifts

Robert Gustafson *Project Design Member*

MADISON, WI • FALL 2014

- Collaborated with team members in the design and construction of a prototypical excavator able to extract simulated Martian soil with remnants of water

ACTIVITIES

University Involvement

- American Society of Mechanical Engineers (ASME)
- UW-Madison Baja Team
- Midwest Rocket Launch & AIAA UW-Madison Treasurer
- Intramural Soccer (Captain/Organizer)

Awards/Certifications

- Dean's List (Fall 2014, Fall 2017)
- High Power Rocketry Level 1 (Tripoli)

Volunteering

- Bone Marrow Registry & Blood Drive Organizer with Be the Match and American Red Cross
- Cross of Life Lutheran Church (Habitat for Humanity and Friends of Rockaway)

Awards/Certifications

- NCEES Engineer in Training (EIT)
- Private Pilot's License (In Progress)

SKILLS

- Proficient in CATIA, Inventor, SolidWorks, AutoCad, PRO-E, NX 9.0, ANSYS, EES, Maple, R, MATLAB, DraftSight, SketchUp, ENOVIA, Vault, Bluebeam, and Java
- Studied 5 years of the Spanish language
- 4 years of shop experience with mills, lathes, drill presses, different sanders and saws, etc.