

## Contact

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(LinkedIn)

## Top Skills

Team Leadership  
Project Management  
Robotics

# Devin Ardeshna

ME/EE @ UMich ('21)  
Palo Alto

## Summary

Excited to continue learning about engineering and robotics and take advantage of unique opportunities to broaden my skills.

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## Experience

Michigan Baja Racing  
Manufacturing Director, CVT Lead  
September 2018 - Present (2 years)  
Greater Detroit Area

Manufacturing Director (2020-)

- Managing manufacturing timeline for entire vehicle including in-house and outsourced parts
- Working with team leads and CNC machinists to ensure organized design-to-manufacturing handoff and adequate inventory of raw material
- Training younger members on CNC machines and other manufacturing processes used to produce parts for the car

CVT Lead (2019-)

- Designing, manufacturing and tuning a continuously variable transmission (CVT) for an off-road buggy to compete in the Baja SAE competition
- Building a mathematical model of the system in MATLAB and validating model with real-world testing

CNC Operator (2018-2019)

- Programmed and operated a Haas VF-2SS vertical machining center to manufacture complex vehicle parts
- Designed fixtures for machining and welding parts using Siemens NX

SpaceX

Avionics Life Cycle Intern  
May 2020 - August 2020 (4 months)  
Hawthorne, California, United States

## PRENAV

### Mechanical Engineering Intern

May 2019 - August 2019 (4 months)

San Francisco Bay Area

- Internship with a startup developing drone-based autonomous civil infrastructure inspection
- Worked with mechanical engineers to revise and document drone build procedure for future production
- Developed wiring harness for drone and base station units
- Designed a dyno to characterize motors used on existing products and assess potential replacements

## Palo Alto High School Robotics Team

### Team Captain, Build Captain, Summer Camp Founder

August 2014 - May 2018 (3 years 10 months)

San Francisco Bay Area

#### Team Captain (2017-2018)

- Led a FIRST Robotics Competition team of 80+ high school students
- Oversaw design, manufacturing, programming and project scheduling of the 2018 robot
- Managed the new member recruitment process
- Guided team members on community outreach projects, fundraising and logistics planning

#### Build Captain (2016-2017)

- Led and trained a group of 20 students in design, manufacturing and assembly of robots to complete tasks such as picking up plastic crates and shooting foam dodgeballs
- Advanced to the FIRST Robotics World Championships in Houston

#### Summer Camp Founder and Lead (2015-2016)

- Launched the first successful Paly Robotics Summer Camp for middle schoolers in 2015, expanded the camp to serve 100+ students in 2016
- Oversaw development of curriculum for four individual sessions: robot design, programming, entrepreneurship, and 3D animation
- Raised over \$20K for the team and created a pipeline to recruit new members

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### Hardware Engineering Intern

June 2017 - July 2017 (2 months)

San Francisco Bay Area

- Internship with a company that designs Android-based point-of-sales terminals
- Worked with test engineers to automate defective unit diagnostics for faster RMA processing
- Developed battery life testing software to assess power management upgrades under different usage profiles
- Prepared handheld payment terminals for use as developer kits
- Assembled and configured a Lulzbot Taz 6 3D printer for rapid prototyping

## Pacific Tech Camps

Camp Counselor

June 2015 - July 2015 (2 months)

San Francisco Bay Area

- Worked as a volunteer counselor at Pacific Tech Camps in Palo Alto teaching middle school students 3D Printing, Java, Python, and Minecraft Modding

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## Education

University of Michigan College of Engineering

Bachelor of Science - BS, Mechanical Engineering · (2018 - 2021)

Palo Alto High School

· (2014 - 2018)