

# IKSHUL BETHUR

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## MISSION STATEMENT

Mechatronic engineering student seeking hands-on learning opportunities.

## EDUCATION

California State University, Chico - Undergraduate  
Major: Mechatronic Engineering (MECA)

Junior | Class of 2026

### Supplemental Courses:

AP Computer Science (Java Programming) | FLVS  
Algorithms and Data Structures | ATDP UC Berkeley

Final Grade: A  
Final Grade: A-

## WORK EXPERIENCE

Engineering Intern, OnQ Solutions | Hayward, CA

July 2023 - August 2023

- Worked as a general engineering intern, as well as helping with miscellaneous tasks around the office.
- Implemented Solidworks scripting to streamline tasks, boosting team productivity.
- Reverse engineering products and creating a SolidWorks model to be used later in product design.
- Assembled and tested prototypes for a new product in development.
- Worked on meetings and projects outside engineering.
- Learned to work in a team and adapt to different software and workflows.

## TECHNICAL SKILLS

**Design Software:** SolidWorks, Shapr3D, or any CAD Software

**Solidworks Associate Cert. ID: C-5WCL9VG2ZH**

**Solidworks Professional Cert. ID: C-C2LDQJU4TS**

**Tools:** Experience operating lathe, drilling/tapping, laser cutting, and 3D printing

**Programming Languages:** Python, Java, C++, and Swift.

## CLUBS/ACTIVITIES

Chico State FormulaSAE Team Active Member(Wildcat Racing)

September 2022 - Present

- Worked with a small team to design vehicle ergonomics to comply with competition requirements.
- Designed and fabricated parts for our competition vehicle. I specifically worked on the brake safety switch, seat mounting points, and the dashboard.
- Assisted team with vehicle testing, track days, project planning, and suspension alignment.

Eagle Scout - Scouts BSA, Fremont, California Troop-103 | Fremont, CA

March 2016 - January 2022

- Positions held (6+ months): Patrol leader; Troop Guide; Troop Instructor, Quartermaster.
- Learned several soft skills such as communication(email, announcements), leadership and people skills.
- Led a final eagle project where I built outdoor picnic tables for a local church which required several levels of planning, working with the church, and hosting and leading workdays. Successfully pitched, planned, and executed this project before being approved by the Eagle Board of Directors and receiving my Eagle Scout rank.

## PERSONAL PROJECTS

Custom Formula-Style Steering Wheel - Electrical and Mechanical Project

- Was looking for a formula-style steering wheel to replace the one in my car. The only solutions I could find were wheels over \$1,000 made for sim racing. After lots of planning, I decided to design and build one myself.
- Actively designed and modeled a Formula-Style Steering Wheel using SOLIDWORKS, integrating custom-fabricated parts.
- Assembled and soldered components, including several controls to enable communication with a central control unit.
- Successfully adhered to a budget of \$200, showcasing cost-effective engineering without compromising functionality.
- Find comprehensive project details and more projects on Github: <https://github.com/PlantTheDiffuser>