

# Logan Castro

MechE Student | Santa Rosa, CA

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## Summary

Mechanical engineering student with hands-on CAD/CAM (**SolidWorks, Fusion**) and prototyping (**CNC, laser, 3D printing**). Run simple bench tests and process results in **MATLAB** (cleaning, plotting, basic analysis). Collaborative, detail-oriented, and ready for fast-paced R&D.

## Education

**Santa Rosa Junior College, Mechanical Engineering**

Aug 2025 - Present | Engineering coursework; transfer applicant, Fall 2026

**Boston College, Human-Centered Engineering** | GPA: 3.70

Aug 2024 - May 2025

*Selected Coursework: Engineering Computation & Programming (MATLAB); Engineering Analysis Lab; Physical Modeling Lab*

## Experience

**The Hatchery Makerspaces at Boston College, Student Team Member**

Jan 2025 - May 2025

- Supported 200+ students on 70+ tools, machines, and software
- Trained 30+ students on safety procedures and machine usage
- Created training guide for CNC router, optimizing user training time
- Basic woodshop and metalworking equipment maintenance

**Autodesk, Student Ambassador**

Feb 2025 - Present

- Designed and led Fusion workshops for new engineering students
- Hosted Instructables build nights, from concept to design realization

## Projects

**Adaptive Gaming Joystick** | Featured by Instructables, 7.4k+ Views

- Fusion, 3D printing, basic circuitry, open source, adaptive design

**Campus "Nap Pod"** | HCE Studio Design Conference, Popular Vote winner

- Fusion, stakeholder mapping, prototyping, data collection, technical brief

**Wildfire Visualization** | Make-a-Thon, Grand Prize and Sustainability Winner

- ArcGIS, Python, HTML, RPi, laser cutting, rapid prototyping

**Rabbit Cage Latch** | Design challenge (team of 3)

- Client-validated latch concepts, Fusion, adaptive design, team facilitation

## Leadership

**SRJC Baja SAE Racing, President and Founder** | Aug 2025 - Present

- Founded SRJC's first SAE program, 3rd active community college in the US
- Brought in 30+ members and \$100k+ of in-kind and monetary donations

**Pass the Rock, Basketball Coach (AAU, 7th-8th)** | Nov 2023 - Jun 2024

- Coached in games across CA/NV, aided in player development

## Skills

### CAD & Design

- SolidWorks
- Autodesk Fusion

### Fabrication

- CNC Mill/Router
- Waterjet
- 3D Printing (FDM, SLA, PolyJet)
- Laser Cutting
- Manual Lathe
- Machine-Shop Safety

### Electronics & Code

- Arduino & RPi
- MATLAB
- Digilent WaveForms
- Python Basics

## Certifications & Training

- SolidWorks CSWA (Target Jan 2026)
- Fusion Mechanical Design ACA (Target Oct 2025)

## Awards

- Press Democrat Scholar-Athlete of the Year (2024)
- Grand Prize, Make-a-Thon (2025)
- HCE Studio, Popular Vote Winner (2024)

## Interests

- Woodworking
- Internet of Things
- Vintage audio