

Tuffy Titan

City, State | Phone Number | Email | [github.com/yourusername](#) | [LinkedIn Profile URL](#)

EDUCATION

California State University, Fullerton

Expected: Month 20XX

Bachelor of Science, Mechanical Engineering

G.P.A. 3.56, Dean's List

Spring 20XX – Fall 20XX

RELATED COURSES

Fluid Mechanics, Strengths and Materials Lab, Robotics, Mechanical Design, Fluids and Heat Lab

INTERNSHIP EXPERIENCE

Faraday Future, Gardena, CA

Month 20XX – Month 20XX

Powertrain Intern, Power Production Department

- Maintained hardware-in-loop (HIL) plant model
- Conducted hardware-in-loop testing on the Power Controller ECU for regression testing and validating new features
- Automated manual test cases using Tracetronec ECU-TEST to increase testing frequency and reduce human error

PROJECTS

Formula SAE Cooling System Design (*Senior Design Project*)

Month 20XX – Month 20XX

- Researched, designed and tested a cooling system for a formula style racecar
- Developed a thermal simulation model using historical competition data to optimize radiator sizing
- Integrated a custom radiator fan powered by a high-performance brushless motor

Society of Automotive Engineers (*Formula SAE*)

Month 20XX – Month 20XX

Powertrain Lead

- Led a team of six engineering students to design subsystems within the powertrain system
- Validated theoretical calculations through physical testing at the subsystem and vehicle level
- Maintained the team's professional network by interfacing with a variety of companies seeking potential sponsorships, services or advise

Cooling Subsystem Lead

Month 20XX – Month 20XX

- Designed and manufactured the cooling system for a formula SAE car
- Simulated external airflow around the vehicle to design radiator ducting using Ansys Fluent
- Coordinated with aerodynamics lead to minimize negative aerodynamics effect pf the cooling system
- Created Simulink model of the cooling system using the principles o heat transfer and data from physical testing to determine required size of the radiator

SKILLS

- **Solid Modeling:** SolidWorks, AutoCAD
- **Simulation and Testing:** MATLAB, Simulink, Ansys Fluent, Tracetronec ECU-TEST
- **Manufacturing:** 3D Printing, CNC Machining, Master CAM
- **Other:** Python, C/C++, Microsoft Office Suite

LEADERSHIP SKILLS

Society of Automotive Engineers, President

Month 20XX – Month 20XX

Society of Mexican American Engineers and Scientist, Vice President

Month 20XX – Month 20XX