TARAN CACACHO

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EDUCATION

University of California, Los Angeles (UCLA) June 2018
B.S. Mechanical Engineering, GPA: 3.025/4.0

- **Honors**: Dean's List (Winter 2018)
- **Relevant Coursework**:
  Intro to CAD and Drafting — Manufacturing Processes
  Computer Programming with MATLAB — Engineering Thermodynamics
  Engineering of Complex Systems — Rigid Body/Particle Dynamics
- **Awards and Certifications**:
  1st place — PricewaterhouseCoopers's Case Competition, 2015
  2nd place — Boeing's BASE Competition, 2017
  2nd place — UCLA's Rube Goldberg Competition, 2015

SKILLS

Computer Aided Design: SolidWorks (Parts, Assemblies, Drawings)
Manufacturing: MIG welding, mill, band saw, lathe, drill press, geometric dimensioning and tolerancing
Software: MATLAB
In Progress (Learning): Finite Element Analysis, ANSYS Simulation

EXPERIENCE

Bruin Racing Los Angeles, CA
Powertrain Engineer October 2015–June 2018

- Designed cooling subsystem for UCLA's Formula SAE race car, cutting 2017 powertrain weight by ~2.5 lbs. while improving ease of assembly and manufacturability for 2018 iteration.
- Helped team achieve extensive competition success; team placed from Did-Not-Compete to 59th, then 47th place in 3 years.
- Created instructional design-document for methodology of sizing radiator by means of data-driven tests and experiments.
- Utilized SolidWorks and SolidCAM for accurate CNC machining of tight-tolerance features and parts.

Institute of Geophysics and Planetary Physics Los Angeles, CA
Mechanical Design Intern May 2016—September 2016

- Assembled digital iterations of PCB packaging in ICEMAG payload for NASA's Europa mission. Created drawings of tight-tolerance (1/10th millimeter scale) modifications and assemblies for manufacturing. Direct report to chief engineer.
- Designed test mount for magnetometer in ELFIN CubeSat.

ADDITIONAL INFORMATION

- **Extensive volunteering and teaching experience**, including CAD training of incoming engineering undergrads and a sponsored partnership with Toyota Motors to train local high school students basic engineering principles.