

# Antonio Lee

(858) 555-5555 - AD.700@UCSD.edu

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**QUALIFICATIONS:** Scholastically recognized mechanical engineering master's researcher skilled in team collaboration and presentation; adept in solving complex combustion problems and designing analytical models; proficient in LabView, AutoCAD and ANSYS; Fluent, written and verbal in Mandarin and English

## EDUCATION

**UC San Diego (UCSD)**, La Jolla, CA  
M.S., Mechanical Engineering, expected: June 20xx  
**GPA 3.5**

**Tsinghua University**, Beijing, CHINA  
B.S. Mechanical Engineering, 20xx, **GPA 3.85**  
*Summa Cum Laude*

- Outstanding Mechanical Engineering Senior Co-op, **Tsinghua University** (20xx)
- College of Engineering Honors Program, **Tsinghua University** (20xx-20xx)

**RELEVANT COURSEWORK:** Control Systems Design, Digital Control Systems, Mechatronics, Powertrain Dynamics, Vibration of Discrete Systems, Internal Combustions Engines, and Introduction to Smart Materials

## TECHNICAL SKILLS (in order of proficiency)

- *Software:* LabVIEW, AutoCAD, ANSYS, SolidWorks, and Simulink
- *Operating Systems:* Windows and UNIX

## RESEARCH EXPERIENCE

**University of California San Diego**, *Research Assistant*

**Sept 20xx-June 20XX**

Thesis: "The Development and Application of Design Metric for Actuators," <http://ucsdmechlee.ucsd.edu>

- **Phase 1:** Created design metric consisting of three actuator types. Conducted experimental validation of design equations for stacks, twisting, and X-frame actuators
- **Phase 2:** Applied metric to design problems incorporating machine element and system design
- Developed analytical model for a fuel injector and simulated the system in Simulink
- Designed and constructed control systems lab exercises involving PID and PPF control
- Programmed systems in C and validated design metric using an MTS hydraulic force

**PUBLICATION:** *Two Phase Study of Actuator Design Metrics*, A. Lee, and C. Eaper., *Mechanical Engineers USA*. 20xx)

## INDUSTRY EXPERIENCE

**Imperial Labs Engine, Co.**, *Intern*, Beijing, CHINA

**Summers, June 20xx-Sept 20xx**

- Performed FE analysis of alternator bracket to identify stress and natural frequencies
- Validated flywheel housing against shock loading and low cycle fatigue.
- Created FE model to calculate stiffness of engine block and liner
- Developed and tested diagnostics plan to reduce cost of injector failure claims

## UC SD Team Involvement

**Formula SAE Team**, President,

**September 20xx-June 20xx**

- Placed 15th out of 100 teams in international competition
- Supervised engineering design team through concept, development, fabrication, testing, and competition of Formula SAE racecar

**Future Truck Car Team**, Team Co-lead,

**September 20xx-May 20xx**

- Created and maintained checklists for team member activity and project supplies to ensure accountability for time and resources used for the project. Oversaw a budget of 5,000 for Academic year 20xx-20xx

## ACTIVITIES

**Toastmasters International**, UCSD Chapter, *Member*

**20xx-20xx**

*Vice President Membership*, Sept 20xx – June 20xx

- Raised \$3500 from industry and foundation sponsors
- Increased membership 45% to 32 members during tenure

**American Society of Mechanical Engineers (ASME)**, *Member*

**20xx-20xx**