PETER LOPEZ

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EDUCATION

University of California, Irvine, Irvine, CA — June 20XX
Master of Engineering, Mechanical and Aerospace Engineering

California State University, Northridge, Northridge, CA — June 20XX
Bachelor of Science, Mechanical Engineering

EXPERIENCE

Propulsion Engineer Intern | VNP Aerospace, Arcadia, CA — August 20XX-Present

- Utilize MATLAB to predict power and energy requirements for electric VTOL aircraft missions
- Analyze electric helicopter flight test data to extract power plot for flight planning
- Design trailer mounted, solar powered recharging station for electric helicopter using AutoCAD

Mechanical Engineering Consultant | Jammar Lighting, Covina, CA — July 20XX-Present

- Identify design improvements for lighting and fixtures to maximize energy efficiency
- Conduct thermal photometric and life cycle testing to determine temperature limits
- Perform fixture/tooling design using SolidWorks to increase manufacturing efficiency

Design Engineer Intern | Orange Grove Design, Agua Dulce, CA — May 20XX-December 20XX

- Assisted in design and development of three products for construction and medical device industries
- Managed product improvement for a digital weighing scale including drafting the revised model with SolidWorks
- Collaborated with a multidisciplinary team of 12 engineers and customer representatives to ensure product quality
- Managed and prioritized tasks for multiple projects to meet competing deadlines

RELEVANT ACADEMIC PROJECTS

Experiments in Thermal Modeling, Mechanical Engineering Department, UC Irvine — Fall 20XX

- Collaborated with a team of 3 peers to design a reconfigurable thermal modeling environment for testing and validation of building controls algorithms
- Purchased instrumentation hardware while working within a $500 budget
- Developed flexible data acquisition process to accurately store temperature data from up to 7 sensors

Design of Energy Cycles, Department of Environmental Engineering, CSU Northridge — Fall 20XX

- Worked on a multi-disciplinary team to design and engineer cogeneration and steam and power cycles
- Developed numerous spreadsheet models for estimating total cost of building and operating alternative fuel stations
- Led 4-person team in design and coordination effort of over 300 pipe supports on a single hot pipe system
- Coordinated weekly meetings between teammates, faculty, and consultants to keep project on track
- Summarized results in a 20-page report presented to local consultants working on the project

SKILLS

Programming: C/C++, MATLAB, HTML, JavaScript, Java, Python, SQL
Applications: SolidWorks, AutoCAD, Adobe, Excel
Processes: Requirement Matrix, Process Flow Maps, Value Stream Mapping, Design FMEA

HONORS & ACHIEVEMENTS

Henry Samueli School of Engineering Graduate Research Fellow — 20XX
CSU Northridge Distinguished Alumni Award — 20XX
Undergraduate Research Opportunities Program (UROP) Fellowship — Fall 20XX

PROFESSIONAL AFFILIATIONS

Society of Hispanic Engineers, Member — May 20XX-Present
American Society of Mechanical Engineers, Member — January 20XX-Present

CERTIFICATE

California Engineer-in-Training (EIT) — August 20XX