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

CERTIFICATE

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

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
- Perform fixture/tooling design using SolidWorks to increase manufacturing efficiency

Design Engineer Intern | DOG Design, Agua Dulce, CA   May 20XX-December 20XX
- Assisted in design and development of products for industries ranging from construction to medical
- Managed product improvement for a digital weighing scale including drafting the revised model with SolidWorks
- Collaborated with a multidisciplinary team of engineers and customer representatives to ensure product quality
- Managed and prioritized tasks for multiple projects in order to organize 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 in designing and engineering 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   20XX-20XX

PROFESSIONAL AFFILIATIONS

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