Rebecca Lopez

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EDUCATION:

University of California, Irvine (UCI) | Irvine, CA — June 20XX
Master of Science, Mechanical and Aerospace Engineering, GPA: 3.4

California State University, Northridge | Northridge, CA — June 20XX
Bachelor of Science, Mechanical Engineering, GPA: 3.6

TECHNICAL SKILLS:

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

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

- Supported design and development of two new products for construction to medical device industries
- Managed product improvement for a digital weighing scale including drafting the revised model with SolidWorks
- Collaborated with a multidisciplinary team of 8 engineers and customer representatives to ensure quality of product
- Managed and prioritized tasks for multiple projects to meet deadlines within a short timeframe

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

HONORS & ACHIEVEMENTS:

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