

# Matthew Malekhedayat

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## Aerospace Engineer

As an engineer, I respect and enjoy the processes through which things are done. I am collaborative and team-focused, possessing excellent communication skills and experience with system-level design. My personal interests vary across hardware and software including mechanics, networking, servers and others. Complex system interactions are a great interest, as well as leading-edge projects and technologies. My commitment to continuous study has helped me gain perspective on many aspects of engineering, including product design and manufacturing.

### Education

California Polytechnic State University, San Luis Obispo, CA  
Aerospace/Astronautics BS Degree  
Major GPA: 3.20

### Related Coursework

#### Undergraduate Senior Design Project – Lead Spacecraft Engineer

The senior year of the Cal Poly undergraduate aerospace program includes a very involved design project in which a graduating class of students designs a mission and corresponding spacecraft with the goal of fulfilling a “customer” provided mission proposal. The industry-inspired class structure provides great insight into the real-world design process, including system-level trades and customer collaboration. As team leader, I acquired first-hand knowledge on the importance of strong internal communication. I built on this experience, evolving into a valuable contributor on later projects, and subsequent effective and trusted leader.

#### Cal Poly Interdisciplinary Satellite Engineering Project – Chief Information Officer (CIO)

The goal of CPinterSEP is the assembly of a Boeing 376 satellite using real-world assembly processes. CPinterSEP uses actual design prints to guide the assembly, giving students hands-on experiences not found in typical coursework. In addition to the hands-on experience gained, I was acting Chief Information Officer. As CIO, my key responsibilities included organizing and tracking the component inventory, as well as determining component alternatives when necessary. I created a much needed and highly effective master inventory spreadsheet as well as a series of component kits to assure smooth assembly during the scheduled meetings.

#### Undergraduate Aerospace Glider Competition, Cal Poly – 1<sup>st</sup> Place Team

This team competition involved designing and building an original 4-foot glider complete with remote control capabilities in order to carry heavy cargo through the air. Achieved 1<sup>st</sup> Place for simple design choices, on-the-fly design adaptation, and careful construction.

#### Completed Areas of Study:

Systems Design, Dynamics & Controls, Power System Design, RF Communication Design, Structural Analysis, Fluid Mechanics, Thermodynamics, Plasma & Vacuum Environments

### Work Experience

#### Barefoot Coffee, Barista Co-Manager

- Accountable for costs, payroll, and managing inventory levels and supplies
- Develop better practices for daily product execution and facility management
- Manage personnel including interviewing, hiring, and training qualified barista candidates
- Engage and facilitate positive customer experiences and resolve customer service matters
- Promote and teach safe work habits, identifying and resolving potential health hazards and concerns
- Responsible for opening and closing duties

#### Pedego Electric Bikes, Technician & Sales

- Technician responsibilities included bike maintenance, construction and repair, troubleshooting, engaging in new electric bicycle technologies and mechanics
- Sales function included customer engagement, sales service, and transactions

### Skills

Career relevant skills are as follows:

- MATLAB / Simulink (*advanced*)
- STK (*advanced*)
- Machine Learning (*intermediate*)
- Python, C (*intermediate*)
- LaTeX (*intermediate*)
- LabView (*novice*)
- Microsoft Office
- strong writing and communication abilities
- soldering / wiring / assembly
- testing / debugging