Keahooi Hung

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Education

- **University of California, Berkeley** — Berkeley, CA
  Bachelor of Science in Electrical Engineering & Computer Sciences; ***GPA: 3.871*** — *Aug 2017 - May 2021 (Expected)*

Relevant Coursework

- **CS61B**: Data Structures
- **CS61C**: Great Ideas in Computer Architecture
- **EE120**: Signals and Systems

Skills & Abilities

- Python, Java, C, C++, mySQL, Scheme, LaTeX

Projects

- **Tile Based Game**: Created and managed the development of a top-down tile based game in Java with a colleague over the period of 3 weeks, utilizing extensive unit-based testing and Object Oriented Programming.
- **Voice Controlled Robot Car**: Enabled voice actuated movement commands for a small robotic car by performing PCA classification. Minimized noise by constructing low & high pass filters for the on-board microphone.

Experience

- **UC Berkeley** — Berkeley, CA
  Computer Science Academic Intern — *Aug 2018 - Present*
  - **Lab Assistant**: Streamlining around 30 students' lab experience by working with the head lab TA in performing lab checkoffs and in helping students debug code.
  - **Office Hours Assistant**: Providing the opportunity for students to develop a better understanding of class material in a one-on-one setting by explaning and elaborating conceptual topics in computer science.
- **Troop 452** — Cupertino, CA
  Boy Scouts of America — *Jan 2013 - present*
  - **Troop Leader** ***(Jan 2017 - Jun 2017)***: Planned, coordinated, and executed volunteer events and campouts for a troop of around 50 youth. Prepared them for future leadership positions by teaching teamwork and communication skills.
  - **Eagle Scout Service Project** ***(Jan 2018 - July 2018)***: Managed the construction of a 6 foot tall shelf for the non-profit organization Resource Area for Teaching (RAFT) by communicating with around 10 volunteers, establishing a detailed project plan, and leading volunteers on execution day.

Leadership

- **Institute of Electrical and Electronics Engineers (IEEE)** — Berkeley, CA
  Micromouse Committee — *Jan 2018 - Present*
  - **Decal**: Designed a small robot that closely followed a given wall by implementing a closed loop PID control system with a team of 4 people over the course of a semester-long Decal (student led class).
  - **Officer**: Developing core curriculum, creating presentations, and suggesting improvements at weekly committee meetings for the class of 25 students taking the Decal this semester.
- **UC Berkeley Human Powered Vehicle Team** — Berkeley, CA
  Electrical Sub-Team — *Aug 2017 - May 2018*
  - **ABS**: Improved brake actuation and reduced braking distance of the team vehicle by designing and testing Arduino microcontroller code. The code implemented an electrical anti-lock braking system by gathering and analyzing data from an on-board accelerometer
  - **Parking Brake**: Added a parking brake feature to the team vehicle by designing and testing Arduino microcontroller code which utilized sampled data from from the brake servo.

Hobbies & Interests

- Saxophone, Guitar, Tennis