Helene Willits

(714) 949-5298 | hwillits@calpoly.edu | https://helenewillits.github.io/home/

EDUCATION

Cal Poly San Luis Obispo, CA — Graduating June 2022

- Pursuing a Computer Science B.S. Undergraduate Degree
- GPA: 3.49
- Relevant Coursework: Object Oriented Programming, Data Structures, Computer Organization, Systems Programming, Discrete Structures, Computer Architecture
- Significant Projects: Parallel Processing Matrix Multiplication, Thumb Simulator
- Programming Languages: Python, Java, C

WORK EXPERIENCE

Building Controls Intern – ACCO Engineered Systems — Summer 2019

- Designed network architectures, programmed controls logic, and organized user interface for all of the heating and air conditioning (HVAC) automated machinery on 3 major commercial projects
- Developed controls equipment documentation for over 30 commercial projects
- Designed machine room layouts and calculated statistics for an emergency water supply project

Private Tutor – Self Employed — 2017 - Present

- Tutor math through Calculus III and accommodate individual learning impairments, styles, abilities

PROJECTS

SLO Hacks – Major League Hacking — March 2020

- Used Java and Android studio to design and code an app that allows users to wage bets against themselves and their friends to help increase their productivity and accountability
- Designed the app's architecture and coded features that allowed users to create and manage their challenges
- Coded frontend features that allowed users to manage their current challenges and navigate between pages

Society of Women Engineers: Team Tech with Boeing — 2018 - 2019

- Placed 3rd at SWE National Conference, 2019
- Designed and prototyped a stowable treadmill to prevent blood clots in passengers with Deep Vein Thrombosis
- Research Lead: Analyzed and reported on the economic, health, and other impacts of the product, as well as organized the research team and ensured that deadlines were met with excellent deliverables
- Presented to our Boeing mentor team in a research presentation, design review, and prototype review and implemented mentor advice into our future design

AthenaHacks – Major League Hacking — April 2019

- Used Java with Android Studio to design and code a user-friendly app that documents travel locations, participants, and event memos in a 24 hour Hackathon

Cal Poly Racing: Formula SAE Aerodynamics Team — 2018 – 2019

- Helped team leaders build scripts for computational fluid dynamics simulations in STAR-CCM+ that increased team efficiency and obtained more comprehensive flow analysis over the entire car structure
- Manufactured and tested components of the rear wing, throttle stops, and suspension links

EXTRACURRICULAR ACTIVITES

Society of Women Engineers: Community Outreach — 2018 - Present

- Encourage young girls in my community to explore and pursue engineering

AWARDS AND NOMINATIONS

- Dean's List — Fall 2018, Winter 2019, Winter 2020
- Individual Recognition Award Recipient – Team Tech with Boeing — Fall 2018
- Selected to represent a UCI Robotics Camp at the 2017 Wonder Women in Tech Conference — 2017

SKILLS AND CHARACTERISTICS

- Effective Communication, Positive Attitude, Focused Work Ethic