

Benjamin Walker Hartley

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Education

2021-present	Harvey Mudd College
2018-2020	MiraCosta Community College
2016-2020	Sage Creek High School

Skills

Python, C, C#, C++, Rust, HTML, JavaScript
Mathematics, Physics
Electronic Test Equipment
Research Lab Procedures
Curriculum Development
Quality Control Software
Verification & Validation Methods

Work Experience

Resident Assistant : Fall 2023-present, Harvey Mudd College, Claremont, CA

Assisting in new student orientation and providing basic medical and mental health resources for dorm residents.

Lab Test Engineer : Summer 2023, Psi Quantum, Palo Alto, CA

Worked independently to assemble and deploy a precision optical microscope and dust free workspace in order to characterize the warping of photonic quantum chips due to manufacturing error.

Teacher's Aid : Fall 2022-Spring 2023, Harvey Mudd College, Claremont, CA

Graded and tutored in special relativity and abstract algebra at Harvey Mudd College.

Research Assistant : Summer 2022-Spring 2023, Harvey Mudd College, Claremont, CA

Automated experiment calibration/execution in a quantum optics lab with Professor Theresa Lynn.

Firmware Test Intern : 2020-2021, Nalu Medical, Carlsbad, CA

Collaborated with a team of three senior engineers to design and deploy a framework automating the execution of firmware test protocols for implantable medical devices with primary motivations being increased test coverage, improved repeatability, and reduced verification time.

Volunteer : Summer 2019 & Summer 2020, Sage Creek High School Robotics, Carlsbad, CA

Developed curriculum and taught classes in control theory and algorithms at Sage Creek High School.

Miscellaneous : Summer 2019

Worked part time for Nalu Medical (collecting data regarding implanted device connectivity as a function of spatial orientation (pitch, roll, depth)).

Worked as a general lab assistant for Algae Research and Supply; responsible for culture maintenance.