

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, Java, HTML, JavaScript
Mathematics, Physics
Electronic Test Equipment
Research Lab Procedures
Curriculum Development
Quality Control Software
Verification & Validation Methods

Work Experience

Teacher's Aid : Fall 2022-present, Harvey Mudd College

Grading and tutoring in special relativity and abstract algebra at Harvey Mudd College.

Research Assistant : Summer 2022-present

Investigating entanglement witnesses and automating 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 & 2020, Sage Creek High School, Carlsbad, CA

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

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.

Private Tutor : Summer 2016-present

I have for years offered individual tutoring in STEM disciplines for high school and college students.