

Adam Abbas

Undergraduate Student

Contact

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Education

California Institute of Technology
Bachelor of Science, Materials Science '22

Stuyvesant High School
Regents Diploma w Advanced Designation '18

Key Skills

Communication
Software Development
Project Management
Instruction/Curriculum
Development

Objective

I am a driven student, with achievements both inside and outside of the classroom. Among them are a successful tech education startup, 5+ years of experience in software, electrical and mechanical engineering, and superb communication and leadership skills. My goal is to use knowledge to make a meaningful difference in the world, and hope to reach that goal with every project I undertake.

Experience

04/20 - PRESENT

Undergraduate Researcher • Falson Group at Caltech

Worked under Professor Joseph Falson studying thin film quantum materials through Molecular Beam Epitaxy. Developed a digital infrastructure for the lab during its construction and began a research project on the pyrochlore crystal structure.

01/2020 - PRESENT

Teaching Assistant • California Institute of Technology

Served as a teaching assistant for CS2: Introduction to Programming Methods and CS3: Introduction to Software Design. Helped design course assignments and guide lectures, as well as held weekly office hours to aid in concept understanding and debugging. Received excellent feedback surveys and assumed position of Head TA for CS2 in 2021.

06/2019 - PRESENT

V&V Engineering Intern • NASA Jet Propulsion Laboratory

Worked on the Psyche space mission as a Project System Engineer in Verification and Validation. Developed a custom set of software tools for tracking dictionary item testing, and managed a project database of over 8 thousand verification items.

02/2016 – 04/2019

Co-Founder/Director of Programming • Kinet-X

Co-founded an LLC at 15 years old with two classmates, aiming to spread STEM education to students who would otherwise have little to no access to it. Reached over a thousand students in the NYC area, was featured in the Wall Street Journal in 2017 and designed and hosted numerous programs and events.

References

Available upon request.