EDUCATION

Drexel University, Pennsylvania

Sep '16 - June '21

BS Computer Engineering. Minor in Japanese

Recipient of A.J Drexel Scholarship

Club Soccer player, NIRSA Division Champs

Relevant Coursework:

ECE204: Microcontrollers, CS265: Advanced Programming Techniques, MATH221: Discrete Math, ECE201: C Programming, ECE200: Digital Logic, CS270: Mathematical Foundations of Computer Science

Woodstock School, India

August '14

Graduated with high honours. ACT w/ writing: 34/36

Varsity Soccer. AP Scholar with Distinction

RELEVANT EXPERIENCE

Software engineering intern at Elyah.io, Tokyo

Nov '19 - Jan '20

- Worked with a team towards developing a quantum-computing backend that supports conventional quantum logical gates and algorithms. Done in Rust and WASM.
- Wrote custom quantum gate logic for the front-end using IBM's OpenQASM specifications to facilitate complex quantum circuits.

R&D Intern at Johnson Matthey | Clean Air, Pennsylvania

Sep '18 - April '19

- Developed novel engine control catalysts via fundamental research and tailored synthesis methods.
- Analysed data from myriad testing methods (XRF, IV Vis etc.) to determine catalysis efficiency and feasibility in scaling. Worked extensively with Excel Macros.
- Collaborated with scientists from the Americas, EU, Japan and India on internal and external projects.

Research Scholar at University of Sussex, UK

April '17 - Sep '17

- Studied perovskite solar cells, and how materials such as Zinc Oxide nanorods and graphene-oxide / graphene composites can be used to improve photoconversion efficiency.
- Researched methods of graphene synthesis and deposition that paved way for a novel perovskite solar cell architecture.
- Constructed and programmed an Arduino-controlled spin coater for solar cell fabrication under a vacuum.

SKILLS

Languages: C, Rust, Python, MATLAB, LATEX, Arduino IDE, Processing.js Technical: Microsoft Office, Creo Parametric, WindowsOS, MacOS, UNIX Spoken Tongues: Native level fluency in Japanese, English and Hindi.