

Ibraheem Khan

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Website: <https://pikhan.github.io/>

EDUCATION

B.S. University of Nevada, Reno - Reno, NV
Pure Mathematics and Physics, minor in Computer Science

Expected May 2021

Relevant Coursework:

MATH 486-Game Theory, PHYS 421-Quantum Mechanics, Computer Science II, Math 310- Analysis I

TECHNICAL SKILLS

Programming Languages:

C++ (with openCV), C, HTML & CSS, Java, and Python

Skills & Expertise:

Linux, KICAD, Inventor, MySQL, Adobe CC, Rasp. Pi, Arduino, UpBoard, Microsoft Office, PowerShell, and all internet browsers

WORK EXPERIENCE

Pharmacy and ER Department, Valley Hospital

Teen Volunteer

January 2015 - February 2017

- Helped Pharmacy and ER departments clean and set up beds for incoming patients and stock supply

Engineering Department, University of Nevada Las Vegas

Intern

January 2017 - June 2017

- Worked on a weather balloon and UAV-heavy project to assess the climate via SODAR data

Joe Crowley Student Union, University of Nevada Reno

Student Worker

January 2018-ongoing

- Manage phone reception, work with sponsors and visitors at the Joe, setup and clean ballrooms

EXTRACURRICULAR ENGAGEMENTS

Robotics and Electronics Club, University of Nevada, Reno

President

January 18 - now

- Founded the club to fund student electronic projects and represent the University at Makers Faire
- Design, create, and code various electronics and programming projects

Safecracking, Rancho High School

Captain

August '16- May 17

- Led the team to work on building the safe and its physical principles for the Shalheveth Fryer International Physics Tournament
- Designed and implemented most of the safe's circuitry.

AWARDS AND ACHIEVEMENTS

- Questbridge Finalist and Bruce Fishkins Semi-Finalist
- 1st Place Math Kangaroo Level 12 and Top 50% Putnam Math Competition

PROJECTS

- Plasma Arc (Vortex) Speaker
- Exoplanet Transit Photometry with Great Basin Observatory
- KICAD design of a Function Generator and various CAD models

PAPERS

- Infinite Sets [<https://polymathykhan.github.io/Infset.pdf>]
- Advanced Calculus (in Production) [https://polymathykhan.github.io/Advanced_Calculus.pdf]