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EDUCATION

THE UNIVERSITY OF CHICAGO

Chicago, IL

Bachelor of Science in Physics and Computer Science

Expected June 2022

Honors & Awards: National Science Foundation (NSF) Grant Recipient; Odyssey Scholar; Awarded 1st place in Civic Tech Challenge at ThinkChicago 2019

EXPERIENCE

UNIVERSITY OF CHICAGO MEDICINE

Chicago, IL

Design Engineer

March 2019 – Present

- Collaborate with Dr. Daniel Ginat, Assistant Professor of Radiology and Director of Head and Neck Imaging at The University of Chicago Hospital
- Designing a passive driver for Magnetic Resonance Elastography imaging of the head and neck regions
- Leverage additive manufacturing to develop prototypes of passive driver, increasing diagnostic imaging accuracy

THE UNIVERSITY OF CHICAGO DEPARTMENT OF COMPUTER SCIENCE (CSIL)

Chicago, IL

Software Specialist

February 2019 – Present

- Manage administrative systems such as kiosk software, Ansible & Mac imaging, software backups, VM machines etc.
- Conduct services in Software Development and System Administration such as problem solving for hardware and asynchronous client-server communication
- Administer 100+ Macintosh and Ubuntu machines while providing user support for students and faculty

VOLTAIC SYSTEMS

Brooklyn, NY

Prototype Engineer Intern

June 2019 – August 2019

- Designed and integrated solar solutions to IoT applications/projects, specifically LoRa/LoRaWAN
- Conducted quality assurance and control testing on custom solar panels for industrial applications
- Consulted directly with company clients to develop specifications and guidelines for their solar projects

HISEAS & BASALT - NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Big Island, HI

Research Associate

September 2016 – May 2018

- Selected to participate in energy and data management for NASA project dealing with lava terrains
- Managed scientific fieldwork conducted under simulated Mars mission constraints in the Hawai'i Space Exploration Analog and Simulation and the Biologic Analog Science Associated with Lava Terrains

CANADA-FRANCE-HAWAII TELESCOPE

Kamuela, HI

Database Specialist Intern

October 2016 - May 2018

- Worked with hardware and software technologies related to Bluetooth and Wi-Fi communications, Qi wireless power, motion sensors, electronic circuit design, and fabrication including component placement, baking, testing, and systems integration
- Assisted development of iOS and Android Apps as well as Microsoft and OSX Applications

INDEPENDENT SCIENCE RESEARCH

Waimea, HI

Bionic Prosthetic Hand

September 2016 - June 2018

- Designed and created low cost bionic prosthetic hand controlled by an EEG brainwave headset giving the user cutting-edge dexterity at a fraction of the cost of conventional robotic prosthetics
- Recognized amongst 500 students with Engineering Award (2017)

LEADERSHIP/ACTIVITIES

UCHICAGO CLUB SOCCER TEAM

Chicago, IL

Captain, Mid-Fielder

September 2018 – Present

- Balance a 10+ hour per week practice and travel schedule with rigorous academic course load

SKILLS AND INTERESTS

Language: Fluent English, Fluent Spanish, Proficient Hebrew

Computer: Onshape/Autodesk CAD, EAGLE, Blender, HTML/CSS, Arduino, DrRacket (typed/racket), C, C++, Adobe: Lightroom, Premiere Pro, Photoshop, Logger Pro, Microsoft Excel

Interests: Soccer, Running, Photography/Videography, Member of Team USA (20th Maccabiah Games)