

AIMAN NAJAH

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EDUCATION

Columbia University

B.S. Mechanical Engineering

Minor in Computer Science and International Relations

New York, NY

August 2019 - May 2023

WORK EXPERIENCE

Google Computer Science Summer Institute

Participant

July 2019 - August 2019

Pittsburgh, PA

- Completed a three-week intensive coding boot camp with developed skills in HTML, Python, CSS, JavaScript and Google App Engine/ Data Store
- Developed Local, a platform that aims to connect locals and travelers together around the world, with over 20 current users

U.S. Army CDCC Soldier Center

HEROES Intern

June 2019 - August 2019

Lowell, MA

- Improved the efficiency of standard Perovskite Solar Cells by 15 Percent through altering ETH transport chain under Dr. Bae at the Harnessing Emerging Research Opportunities to Empower Soldiers lab
- Participated in events, including meetings and presentations to better understand PCS and PVcells and acknowledge outside research on PCS

Pioneer Charter School of Science II

Assistant IT Manager

April 2019 - Ongoing

Saugus, MA

- Managed confidential information for 400+ accounts composed of general students and staff
- Monitored Google SQL database to maintain performance of over 300 Chromebooks (repaired Chromebooks screen and keyboard upon demand)

Northeastern University

Research Intern

June 2018 - August 2018

Boston, MA

- Tested grasping abilities of the Model O hand utilizing its multi-surrounding capabilities of the large finger span, unrestricted by the size of the object (tested various orientations)
- Improved grasping of irregular objects by 56 Percent utilizing python, ROSPY, and RVIZ to adequately use trajectory planning to make movement of BAXTER more fluid and unrestricted

PROJECTS

Local: Discover the Hidden

July 2019 - Ongoing

Local is a web app platform that aims to do one of three things: connect travelers and locals together, provide opportunities for more rich and life-long experiences, and allow people from around the world to connect with those who know the area best. Visit localll.appspot.com to learn more!

Carbon Capture using Polyethylenimine infused Silica Gel

September 2018 - May 2019

To introduce a new and effective means for capturing vast amounts of CO₂ from the atmosphere and at a point source, I utilized polyethylenimine-infused silica as an absorber to test for a higher yield of

CO2 uptake and a lower pH change for a closed hydrosystem. The SG-PEI maintained a sub 3 Percent PH changed while averaging an above 6.2 g/min CO2 uptake value (in a 0.5L/min CO2 flow system).

Developing a More Effective Open World Assistive Grasping Technique *June 2018 - August 2018*

Using open world assistive learning and a new design grasp detection algorithm, we can achieve a success rate of 90 percent in a non-mobile scenario and 72 percent in a mobile scenario in picking up irregularly shaped objects. This project explores the potential of under actuated grippers, such as the Yale Open Hand, to improve these grasping success rates.

ACTIVITIES AND LEADERSHIP

Henry David Thoreau Foundation	Member
Elks National Foundation	Member
UNCF Stem Scholars	Member
NSBE Jr. Chapter	President
NHS PCSS II Chapter	President
Model United Naitons Club	Vice President
Motivated Muslim Youth Program	Mentor
STEM After School Program	Tutor
Science Olympiad Division B	Coach

SKILLS AND STRENGTHS

Technical	HTM, CSS, JavaScript, Python, Google App Engine, Datastore, Latex
Software	MS Office, MacOS, ChromeOS, Linux, Adobe Creative Cloud
Language	Arabic, English, French, Spanish (Elementarty Proficiency)
Interpersonal	Public Speaking, Leadership, Time Management, Organization, Podcasting
Certifications	CPR/AED (12/2018 - 12/2020)

ACADEMIC ACHIEVEMENTS

Henry David Thoreau Foundation Scholarship	May 2019
Genius Olympiad: Silver Medal	June 2019
1st Place Massachusetts State Science and Engineering Fair	May 2019
George Eastman Young Scholars Award	September 2018
Congressional Award: Silver Medal	August 2018
AP Scholar	July 2018
AP Scholar with Distinction	July 2019
American Society of Safety Engineers Award	May 2018
Elks National Foundation MVS Scholarship	May 2019
Chevron Corporate Scholarship	August 2019
John and Abigail Adams Scholarship	May 2019