

Sarah Hasnain

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5901 Mount Eagle Dr., Apt. #811, Alexandria, VA 22303

EDUCATION

NOTRE DAME OF MARYLAND UNIVERSITY

Mechanical Engineering, Physics

- Expected Graduation: May 2018

Baltimore, MD
August 2015 – Present

WEST POTOMAC HIGH SCHOOL

- President, Technology Student Association (TSA)
- Founder, WPHS Girls in Engineering

Alexandria, VA
September 2012 – June 2015

PROJECTS

AGU ANALYTICS

American Geophysical Union

- Creating software to analyze AGU data, and produce an intuitive UI to access this information, thus encouraging opportunities for research collaboration among its member-base
- Funded by the National Science Foundation (NSF) GEO-LINK Grant

Baltimore, MD
January 2017 – Present

ARCC

Arecibo Radio Control Center

- Organized and leading a committee of students to participate in analyzing Arecibo data to identify pulsars
- Future anticipated work includes running observation sessions, presenting at annual ARCC conferences

Baltimore, MD
November 2016 – Present

A.S.T.E.R.O.I.D.

Applying Solar Thermal Energy for Resource-Opulent In-Situ Deconstruction

- Extracting resources from asteroids using a parabolic array of mirrors, designed crafts to bring these materials to Earth for research
- Facilitated at The Johns Hopkins University Applied Physics Laboratory (JHU APL)
- Received the People's Choice Award by NASA's International Space Apps Challenge

Laurel, MD
April 2016

ROBOROACH

Modified Boe-Bot, coded using Parallax

- Aided the design and construction of a cockroach-controlled servomechanism
- Overcame issues regarding software compatibility, outdated code language, and configuring device components
- Gained experience in researching, as well as programming microcontrollers and servo motors

Alexandria, VA
January 2014 – March 2014

NEUROPROSTHETICS

Troubleshooting functions of prostheses through cockroaches

- Analyzed the fundamental principles of neuroprosthetics, and their issues when implemented into the human body
- Facilitated using a SpikerBox (device that measures and records neuron activity)

Alexandria, VA
October 2014 – December 2014

SKILLS

American Sign Language (ASL) Fluent • AutoCAD • Collaborative Leadership • GitHub • Google SketchUp • Java Programming
Mathematica • MATLAB • Microsoft Office Suite • Open Science Framework • Python Programming • Visual Basic • 3D Printing

LEADERSHIP / VOLUNTEERING

NEXT SCHOLAR, The New York Academy of Sciences

February 2017 – Present

FOUNDER & PRESIDENT, NDMU Chapter of the Society of Women Engineers (SWE)

November 2015 – Present

FIRST LEGO LEAGUE MENTOR, Living Classrooms

September 2015 – August 2016

BONNER LEADER, Corella and Bertram F. Bonner Foundation

August 2015 – Present

AMBASSADOR & VOLUNTEER, National Maker Faire

June 2015 – Present

FEATURED PANELIST, EicTV: "Women and Girls at the Intersection of Innovation and Opportunity"

May 2014

ASL INTERPRETER, Bill Nye the Science Guy & The Planetary Society

April 2014

AMBASSADOR & ASL INTERPRETER, USA Science & Engineering Festival

February 2014 – Present

PAID WORK

Intern, Baltimore Node Makerspace

August 2016 - Present

Customer Service Specialist, Best Buy Stores, LP

July 2014 – Present

Mathematics Tutor

January 2013 – Present