

Syed Saahir S. Ahmed

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EDUCATION

BSc	The Pennsylvania State University	Electrical Engineering	Aug 2015- May 2019
<ul style="list-style-type: none">GPA: 3.43 / 4.00			
MSc	Johns Hopkins University	Electrical and Computer Engineering	Jan 2020 - Present

EXPERIENCE

Northrop Grumman Corporation	Baltimore, MD
<i>Associate Electrical Engineer at NGC Mission Systems</i>	Aug 2019 – Present
<ul style="list-style-type: none">Developed a test set for a program to test RF modules off production units to reduce transit time between sitesCreating a data tool using python and batch scripts that provides real-time and automated analytics to various high-visibility programs to increase troubleshooting accuracy and reduce test and troubleshoot time by up to 80%Developing Test software using C and C++ on LabWindows CVI for programs and leading the design of one of the programs.Setting up TPS (Test Program Set) and Test sets for new programs that will soon move into high volume and production using circuit schematics and building cable assemblies on Zuken cable	
Argonne National Laboratory	Lemont, IL
<i>Robotics Engineer Intern at Applied Materials Division</i>	May 2018 – Jul 2018
<ul style="list-style-type: none">Modified accurate simulations of dry nuclear waste handling facilities and specific tooling tasks for robotic automation using the V-REP and Lua in Linux environmentCreated a hardware-in-the-loop simulation for testing complex tooling tasks before hardware deployment, which allowed for an affordable prototyping process before deployment using ROS, Baxter Robot, Python and C++	
Argonne National Laboratory	Lemont, IL
<i>Electrical Engineer Intern at X-Ray Science Division</i>	May 2017 – Aug 2017
<ul style="list-style-type: none">Developed an image processing procedure for identifying in x-ray tomography data the porosity of 3D printed parts with an accuracy of 95% and doing 3D reconstruction of those pores using Python and MATLABCoded a procedure in Python that takes HEDM grain data of polycrystalline structures through different load conditions and made it mappable and easily accessible through ParaView	
ADN Telecom Limited	Dhaka, Bangladesh
<i>Radio/Optics Team Engineer</i>	Jun 2016-Aug 2016
<ul style="list-style-type: none">Setup radio devices at cell towers to provide network to underprivileged areas while learning about the hardwareProgramming a point of presence to be setup in a new area of the city for a local client of the company	

COMMUNITY EXPERIENCE & ACTIVITIES

Nittany Data Labs	Penn State – University Park
<i>Chatbot Project with Disney Animation Studios</i>	Aug 2017 – May 2018
<ul style="list-style-type: none">Produced a chatbot prototype that was presented to the studio to showcase the capabilities of using such a program for promotion and even office productivityCoded this chatbot using Python and JSON and connected this chatbot with the Slack API	
Mohona – Bangladesh Cultural Club	Penn State – University Park
<i>Founder, Current Treasurer (previously Vice-President)</i>	Mar 2017 – May 2019
<ul style="list-style-type: none">Founded this club for undergraduates to learn and immerse in Bengali culture and to gain experience hosting events and making new connectionsOrganized the Bengali new year 2017 and Bengali mock wedding event in 2018 and made a profit from both events that went towards further promoting and helping generate more interest in Southeast Asian cultures	
Penn State Advanced Vehicle Team	Penn State – University Park
<i>Controls Systems, Modelling and Simulations Team</i>	May 2018 – Dec 2018
<ul style="list-style-type: none">Building and improving modules related to transmission shift and torque split for the 2016 Camaro Hybrid to improve efficiency and performanceCollaborating with electrical team to improve schematic documentation and wiring	

LEADERSHIP POSITIONS

Mohona – Bangladesh Cultural Club – (Founder & Treasurer)	Aug 2015 – May 2019
Penn State Robotics (Firefighting Robot Team Lead)	Aug 2016 – May 2017

HONORS AND AWARDS

Ford Motors Scholarship	Aug 2018-May 2019
Kwang Y. and Sangwol Lee Trustee Scholarship	Aug 2017-May 2019
IEEE – HKN Member Inductee	Feb 2018

SKILLS

Verbal Language

- Bilingual in English and Bengali
- Elementary proficiency in French

Technical Skills

- Arduino, Raspberry Pi, Baxter Robot, X-Ray High energy diffraction microscopy
- C++, Python, C, Lua, MATLAB, ROS, HTML, CSS, Javascript, batch scripting
- V-REP, Unreal Engine, LabView, Tableau, LabWindows CVI, Multisim, Linux, Zuken E3, MentorGraphics Designer and Layout, MicrowaveOffice, Keysight ADS