

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: 3.31 / 4.00			

EXPERIENCE

Argonne National Laboratory <i>Robotics Engineer Intern at Applied Materials Division</i>	Lemont, IL 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 <i>Electrical Engineer Intern at X-Ray Science Division</i>	Lemont, IL 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 <i>Radio/Optics Team Engineer</i>	Dhaka, Bangladesh 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 <i>Chatbot Project with Disney Animation Studios</i>	Penn State – University Park Aug 2017 - Present
<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 <i>Founder, Current Treasurer (previously Vice-President)</i>	Penn State – University Park Mar 2017 - Present
<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 <i>Controls Systems, Modelling and Simulations Team</i>	Penn State – University Park May 2018 – Present
<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)	May 2018 - Present
Penn State Robotics (Firefighting Robot Team Lead)	Aug 2016 – May 2017

HONORS AND AWARDS

Kwang Y. and Sangwol Lee Trustee Scholarship	Aug 2017 & 2018
IEEE – HKN Member Inductee	Feb 2018

SKILLS

Language:	<ul style="list-style-type: none">C++, Python, Lua, MATLAB, ROS, HTML, CSS, JavascriptV-REP, Unreal Engine, LabView, Tableau, Multisim, Linux
Technical:	<ul style="list-style-type: none">Arduino, Raspberry Pi, Baxter Robot
