

# Syed Saahir S. Ahmed

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## EDUCATION

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BSc	The Pennsylvania State University	Electrical Engineering	Aug 2015- May 2019
<ul style="list-style-type: none"><li>GPA: 3.43 / 4.00</li></ul>			

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## EXPERIENCE

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<b>Northrop Grumman Corporation</b> <i>Associate Electrical Engineer at NGC Mission Systems</i>	<b>Lemont, IL</b> Aug 2019 – Present
<ul style="list-style-type: none"><li>Developed a test set for a program to test RF modules off production units to reduce transit time between sites</li><li>Creating 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%</li><li>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</li></ul>	
<b>Argonne National Laboratory</b> <i>Robotics Engineer Intern at Applied Materials Division</i>	<b>Lemont, IL</b> May 2018 – Jul 2018
<ul style="list-style-type: none"><li>Modified accurate simulations of dry nuclear waste handling facilities and specific tooling tasks for robotic automation using the V-REP and Lua in Linux environment</li><li>Created 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++</li></ul>	
<b>Argonne National Laboratory</b> <i>Electrical Engineer Intern at X-Ray Science Division</i>	<b>Lemont, IL</b> May 2017 – Aug 2017
<ul style="list-style-type: none"><li>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 MATLAB</li><li>Coded 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</li></ul>	
<b>ADN Telecom Limited</b> <i>Radio/Optics Team Engineer</i>	<b>Dhaka, Bangladesh</b> Jun 2016-Aug 2016
<ul style="list-style-type: none"><li>Setup radio devices at cell towers to provide network to underprivileged areas while learning about the hardware</li><li>Programming a point of presence to be setup in a new area of the city for a local client of the company</li></ul>	

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## COMMUNITY EXPERIENCE & ACTIVITIES

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<b>Nittany Data Labs</b> <i>Chatbot Project with Disney Animation Studios</i>	<b>Penn State – University Park</b> Aug 2017 - Present
<ul style="list-style-type: none"><li>Produced a chatbot prototype that was presented to the studio to showcase the capabilities of using such a program for promotion and even office productivity</li><li>Coded this chatbot using Python and JSON and connected this chatbot with the Slack API</li></ul>	
<b>Mohona – Bangladesh Cultural Club</b> <i>Founder, Current Treasurer (previously Vice-President)</i>	<b>Penn State – University Park</b> Mar 2017 - Present
<ul style="list-style-type: none"><li>Founded this club for undergraduates to learn and immerse in Bengali culture and to gain experience hosting events and making new connections</li><li>Organized 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</li></ul>	
<b>Penn State Advanced Vehicle Team</b> <i>Controls Systems, Modelling and Simulations Team</i>	<b>Penn State – University Park</b> May 2018 – Present
<ul style="list-style-type: none"><li>Building and improving modules related to transmission shift and torque split for the 2016 Camaro Hybrid to improve efficiency and performance</li><li>Collaborating with electrical team to improve schematic documentation and wiring</li></ul>	

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## LEADERSHIP POSITIONS

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<b>Mohona – Bangladesh Cultural Club – (Founder &amp; Treasurer)</b>	May 2018 - Present
<b>Penn State Robotics (Firefighting Robot Team Lead)</b>	Aug 2016 – May 2017

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## HONORS AND AWARDS

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<b>Ford Motors Scholarship</b>	Aug 2018-May 2019
<b>Kwang Y. and Sangwol Lee Trustee Scholarship</b>	Aug 2017-May 2019

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**SKILLS**

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**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,