

# Syed Saahir S. Ahmed

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## EDUCATION

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BSc	The Pennsylvania State University	Electrical Engineering	Aug 2015- May 2019
• GPA: 3.31 / 4.00			

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## EXPERIENCE

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<b>Argonne National Laboratory</b> <i>Electrical Engineer Intern at Nuclear Engineering 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 and accurate prototyping process before deployment using ROS, Baxter Robot, Python and C++</li></ul>	

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<b>Argonne National Laboratory</b> <i>Electrical Engineer Intern at X-Ray Science Division</i>	<b>Lemont, IL</b> May 2017 – Aug 2018
<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>	

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<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>	

## 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>	

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<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>	

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<b>Penn State Robotics</b> <i>Firefighting Robot Team Lead</i>	<b>Penn State – University Park</b> Jan 2016 – May 2017
<ul style="list-style-type: none"><li>Led a team to compete at ShepRoboFest at Shepherd University for their annual robotics competition</li><li>Built a robot that can navigate a maze using an Arduino and ultrasonic sensors</li></ul>	

## 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

## HONORS AND AWARDS

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

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## SKILLS

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<b>Language:</b> <ul style="list-style-type: none"><li>Bilingual in English and Bengali</li><li>Fluent in French, Learning Japanese</li></ul>	<ul style="list-style-type: none"><li>C++, Python, Lua, MATLAB, ROS, HTML, CSS, Javascript, Slack API, Facebook Messenger API</li><li>V-REP, Unreal Engine, LabView, Tableau, Multisim, Linux</li></ul>
<b>Computer:</b> <ul style="list-style-type: none"><li>Arduino, Raspberry Pi, Baxter Robot</li></ul>	