

# Ayesha Khatun

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## EDUCATION

**BACHELOR OF SCIENCE | AUGUST 2017 - MAY 2020 (EXPECTED) | UNIVERSITY AT BUFFALO, SUNY | GPA 3.45**

- Major: Aerospace & Mechanical Engineering
- Related coursework: Machine & Mechanisms, Manufacturing Processes, Design Process & Methods, Heat Transfer, Fluid Mechanics, Aerodynamics, Flight Dynamics, Spacecraft Dynamics & Control, Propulsion

**ASSOCIATE OF SCIENCE | JANUARY 2015 - JUNE 2017 | LAGUARDIA COMMUNITY COLLEGE, CUNY | GPA 3.72**

- Major: Mechanical Engineering
- Related coursework: Statics, Thermodynamics, Linear Algebra, C++ for Engineers, Technical Writing

## ENGINEERING PROJECTS

**ANALYTICAL ROCKET DESIGN AND PROPULSION SYSTEM SIMULATION | AUGUST 2020 – MAY 2020**

- Designed a sounding rocket using Python that reflects the propulsion system and aerodynamic constraints
- Simulated the design and analyzed the geometry and material modifications for better performance

**IMPROVING A SMALL APARTMENT KITCHEN SMOKE FILTRATION SYSTEM | AUGUST 2019 – MAY 2020**

- Analyzed consumer expectations from a survey and developed detailed prototyping ideas accordingly
- Developed a prototype design to assist current filtration system for a better filter performance

**DESIGNING A BALL SORTING MACHINE | JANUARY 2019 – MAY 2019**

- Designed a sorting system for uniform diameter balls made of different materials with the use of a color sensor
- Modified the previous design for a faster sorting speed without compromising the accuracy

## TECHNICAL SKILLS

- Programming Language: MATLAB, Python
- Drafting Programs: Autodesk Fusion 360, Solidworks
- Computer Skills: MS Office (Excel, Word, PowerPoint)

## ACADEMIC ACHIEVEMENTS

- Dean's List (Fall '19), B.S. in Aerospace & Mechanical Engineering, University at Buffalo, SUNY
- Member, Phi Theta Kappa International Honors Society, January 2017 – Present
- Fully funded scholarship for study abroad, "Rendez-vous program in environment and energy" in Paris, June 2017
- Dean's List (Fall '15, Spring '16, Fall '16, Spring '17), A.S. in Mechanical Engineering, LaGuardia CC, CUNY

## LEADERSHIP EXPERIENCE

- Student Senator, Campus Life, LaGuardia CC, September 2015 – August 2016
- Club President, Bangladesh Students' Association, LaGuardia CC, August 2015 – September 2016

## EXPERIENCE

**PEER ADVISOR | DEPARTMENT OF ENGINEERING, LAGUARDIA CC | JANUARY 2016 – JUNE 2017**

- Advised and mentored students to design and maintain academic plans for academic performance improvement
- Guided students for professional growth including time management practices and planning for college transfer
- Organized and presented in training workshops, career fairs, and weekly team meetings

**ASSISTANT MANAGER | BURGER KING | APRIL 2014 – MARCH 2016**

- Managed store sales, inventory, schedules and helped to implement marketing plans to enhance sales outcome
- Assisted in the hiring process and trained, guided and motivated team members for effective teamwork