

# Ayan Gupta

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## Summary of Skills

### Leadership & Management

- **Visionary Thinker, Innovator, Problem-Solver and Do-er | Analytical & Detail Oriented**
- 4+ Years of experience with **program & product management**- 3D printed PPE Initiative Lead, STEMZ Education Founder & CEO, Underwater Robotics Team Lead, etc.

### Technical Skills

- 4 Years of experience with **Python** (self-taught) & **Java**
- Extensive knowledge & experience with **microcontrollers**- Arduino, Raspberry Pi, etc.
- Fundamental skill & knowledge of **SolidWorks, SQL Databases**
- 3 Years of experience with **Adobe Suite** to create videos/marketing material

### Certifications

- Azure Fundamentals (AZ-900) | Python (MTA 98-381)
- SQL Database Fundamentals (MTA 98-364)

## Education

### University of Washington- Seattle

Sept '20 - Jun '23

B.S. Electrical & Computer Engineering (Intended)

**Relevant Coursework:** Calculus III, Matrix Algebra, Differential Equations, Computer Programming II, Data Structures & Parallelism, Phys Electricity/Mechanics/Waves

### Tesla STEM High School

Sept '16 - Jun '20

GPA: 3.95 (Unweighted)

## Professional Experience

### Destination Imagination (WA) Board Communications Director

Sept '18 - Present

Manage and lead communications team corresponding to over 5,000 statewide contacts, correspond directly with global HQ, and organize publicity events for 2,000 people/year.

### Boeing Engineering Project Management Internship

Oct '18 - May '19

Led 15 other interns and coordinated integration of software, hardware, and electrical sub-team components. Developed and maintained monthly deliverables. Implemented control station input/output interface allowing for motor controls, sensor read-out, and display/camera switching. (Technologies: Python, SolidWorks, Arduino, Laser Cutting)

## Ventures & Initiatives

### Founder & CEO of STEMZ Education

Jun '16 - Present

STEMZ Education (501(c) Non-Profit) offers mentorship for low costs. I manage 45+ part-time mentors/volunteers in Washington and Oregon. To-date over 5,000 students have been impacted through STEMZ Education. ([www.stemzeducation.org](http://www.stemzeducation.org))

### 3D Printed COVID-19 PPE Initiative Project Organizer & Lead

May '20 - Sept '20

Led a team of 25 to produce over 9,000 pieces of PPE and raise over \$12,000. Managed multi-city material distribution and coordinated with hospitals using excel spreadsheets. Designed 3D printable mask fastening system in CAD allowing for faster assembly.

## Projects

### Text Simplifier (LazyReader)

- Developed a program that simplifies sentences to make reading easier for non-native english speakers.
- Utilized Apache OpenNLP, Princeton Wordnet APIs and NGSL dataset for most frequently used words.
- Features a randomly generated test to determine individual reading level and convert sentences accordingly.

### Laser Cut Marble Music Machine

- Developed a custom machine that plays music by dropping marbles on self-designed sensors.
- Programmed 2 Arduinos to collect data and control marble release mechanisms. Machine could play multiple different pieces and chords. (Technologies: Java, Arduino, Laser Cutting, 3D Printing)

### Rocket Parachute Release Mechanism

- Wrote the framework for a parachute release mechanism. Sensor readings from an accelerometer and gyroscope determine correct deployment.
- Framework is being used in high school university-level class. (Technologies: Java and Arduino)

## Awards & Accolades

- **425 Business Magazine 30 Under 30:** Featured cover story & youngest recipient. ['19]
- **CBS This Morning Featured Graduate:** Selected for my work during the COVID-19 pandemic. ['20]
- **Verizon App Challenge Best In Nation**