



Shreyas2966@gmail.com  
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## Personal Projects

- **Built & modified a 3D printer**  
Installed Ender 3 v2, a Cr Touch, Direct Drive extrusion, & an additional z-axis to the 3D printer
- **Auto tracking camera**  
Created a camera attachment that tracks and moves to detect and follow faces
- **Home automation system**  
Installed a home automation system that connects over 150 smart devices across multiple ecosystems to a single Raspberry Pi server
- **Created an invisible mouse**  
Developed a program that uses the camera to detect the position of a hand and uses it to move the cursor



# SHREYAS MUZUMDAR

SENIOR @ SAINT JOHN'S HIGH SCHOOL

## CAREER OBJECTIVE

Motivated high school student working to become a robotics engineer. Over the past few years, worked on various projects broadening my engineering experience. Eager to work hard while learning new concepts and helping you and your team in any way I can.

## SKILLS

- CAD (using SOLIDWORKS, ONSHAPE and FUSION 360)
- Stress testing (using SOILDWORKS, and Autodesk Fusion 360)
- 3D Rendering (using Blender and Autodesk Fusion 360)
- 3D printing (Prusa slicer, Cura and Makerbot)
- Building robots (drilling, tapping screw holes, soldering, ....)
- Programming (Java and Python)
- Web Developer(Personal website)

## EXPERIENCE

### The Robo Hub

- Taught younger kids engineering skills
- Helped students create drones, Lego robots, 3d models, and animations
- Developed a system to create time-lapses of different 3d prints

2024-2024

### 12589 Pioneer Robotics Build Leader

- 2024 New England Finalist
- 2023 MTI participant (Top 40 teams worldwide)
- 2023 MA States Winner
- 2021 MA State Finalist
- FLL mentor (Founder of 2 teams)

2021-NOW

# SM

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## Community Service

### ▪ Saint Anne's Parish

Volunteered for group distribution of food to underprivileged

### ▪ Robotics Summer Camp

Run as part of the robotics team to teach the scientific method and the process of being an engineer

### ▪ ACS Camp

Camp run to teach young kids about speech and chess



## EXPERIENCE (cont'd)

### Investment Club President

- Wharton Global Youth Investor (Top 200 out of ~1300)
- Stevens Trading Day Investor (44th of 711)
- National Personal Finance Challenge

### Model UN

- Participated in BUSUN (Brown University Simulation Of United Nations)

### Saint John's High School Tennis

- Varsity School Team member

### FLL (First Lego League) Competitor

- Won local competition and competed at state level
- Won Mechanical Design Award at State level

### DI (Destination Imagination) Competitor

- Won local and competed at state level
- 4th in States, 2nd & 3rd in Regionals

### J H Jeong Tae Kwon Do Center

- Black belt in Tae Kwon Do

2021-NOW

2016-2020