

## EDUCATION

**Vanderbilt University** — *Bachelor of Biomedical Engineering, 3.74 GPA* Aug 2024 - Present  
Relevant Coursework: APCSP, APCSA, Introductory Programming for Engineering and Scientists, Rapid Prototyping, Engineering Management: Applied Behavioral Science, Innovations in Biomedical Engineering  
**Saint Francis High School** — *4.42 GPA, High Honors* Aug 2020 - May 2024

## SKILLS AND INTERESTS

Autodesk Fusion, Inventor, Adobe Photoshop, Python, Java, HTML-CSS, MATLAB  
**Shop skills:** Lathe, drill press, cold/chop/band/jigsaw, 3D printer, CNC router/vinyl cutter  
**Bilingual:** Fluent in written and spoken English and Tamil, basic Spanish, **Lifeguard:** worked for 2 summers, American Red Cross CPR/AED certified

## PROJECTS

**First Robotics Competition** — *Mechanical Design* Jan 2021 - May 2024  
**Intake Mechanism** - designed a lightweight, compliant floor-intake system to acquire game pieces from an unpredictable field, prototyped with different surface materials to best grip game pieces  
**Rotary Joint Optimization** - redesigned a rotary joint to be cheap, 3D printable and hollow to optimize for future dual-ended rotary arm applications  
**Elevator** - implemented a vertically tunneling, spring-based elevator system capable of lifting 100+ pounds and stowing within tight height constraints  
**TEDx** — *Speaker and Program Director* Nov 2022- May 2024  
Selected to deliver a TEDx talk about experience with childhood alopecia  
Directed TEDx program that reached over 1 million viewers, hosted speaker workshops and events by coordinating with external coaches and mentors, and oversaw event planning by leading student subgroups and working alongside faculty

## WORK EXPERIENCE

**Veterans Affairs Hospital** — *Medical Pathology Intern* May - Aug 2023  
Selected as one of four students to learn educational and functional medical morgue tasks including dissection, autopsy, and suture procedures. Shadowed OR department cases & diagnostic conferences, interacted with patients daily, learned alongside medical residents in rotating fields (podiatry clinic, BME implant applications, radiology clinic, operating room, emergency medicine etc.)  
**The Coder School South Bay** — *Computer Science Teacher* May 2022 - Jun 2024  
Built custom lesson plans for diverse skill-levels of students aged 7-85 in Python, Scratch, Java, basic editors/Game-based environments and APCSA/APCSP prep  
**Panorama Research Lab** — *Student Shadow* May 2023  
Shadowed gene therapy cancer researchers and learned lab skills including using instruments like spectrophotometers, conducting gel electrophoresis, and fluorescent microscopes to observe tagged cancer cells

## LEADERSHIP

**Water Polo Athlete** — *Varsity Team Captain/2x Junior Olympian* May 2020 - May 2024  
**Outstanding Academic All American Scholar** - Issued by USA Water Polo, St. Francis Scholar Athlete Award  
**Lancer Robotics** — *Senior Board Member* August 2023 - May 2024  
Made vital design decisions to guide a build team of 50+ members on a 6 week time constraint and taught new members fabrication skills/CAD implementation through an educational robotics pre-season program called Soccerbots