# Pavan Kanakkassery

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## Education

**New York Institute of Technology** May 2026
*Bachelor of Science in Electrical and Computer Engineering* *Current GPA: 3.9/4.0*

- Relevant Coursework: Digital Systems, Microprocessors, Control Systems, Embedded Systems, Signal Processing
- Presidential Honors List: For Fall 2022 to Spring 2024
- Extracurricular Activities: Member of IEEE Student Branch; Volunteer at local STEM outreach programs

**Briarcliff Manor High School** June 2022 - May 2022
*High School Diploma* *GPA: 3.7/4.0*

## Skills

**Programming Languages**: Python, Java, Matlab C, HTML/CSS
**Software Tools / Libraries**: PSpice, LTSpice, IntelliJ IDEA, AutoCAD, pandas, NumPy, Git/GitHub, VS Code
**Languages**: English, Malayalam, Hindi

## Professional Experience

**Securitas Technology** | *Engineering Intern* June 2024 – Present

- Collaborated with engineers to develop precise technical drawings and models, ensuring accuracy and adherence to project specifications.
- Utilized advanced CAD software to design and optimize components and systems, enhancing efficiency and performance.
- Gained practical experience in engineering design processes and technologies, contributing to real-world projects.
- Contributed to projects involving Google, AWS, and Microsoft datacenters, applying engineering principles to optimize infrastructure and systems.
- ***TECH STACK: Bluebeam Revu, AutoCAD***

**New York Institute of Technology** | *Undergraduate Student Researcher* September 2023 – Present

- Member researching the energy enhancement in analog to digital converters for wearable biomedical devices using data records from the MIT-BIH Arrhythmia database.
- Collaborated with research team members weekly to code and advance design functions that can be used to map the ECG signal output signal output in a patient's heart.
- Developed algorithms to enhance the accuracy and efficiency of ECG signal processing, contributing to the advancement of wearable biomedical technology.

## Projects

**The Flappy Bird Carousel** | *Hack UMASS*

- Developed a rotating platform arcade game using Arduino boards, stepper and servo motors, merging modern tech with retro gaming elements.
- Tackled engineering challenges like wire tangling by rotating the microcontroller, showcasing resilience and adaptability.
- Gained expertise in Arduino IDE for motor control and collaborated effectively to create a functional prototype, laying the groundwork for future enhancements.

## Extracurricular Activities

**Volleyball Youth Team** | *Team Leader* August 2024
Currently leading a team of 10-15 youth members, fostering teamwork and preparing for upcoming tournaments.

**Zebra Technologies Student Meetup** | *Attendee* October 2024
Participated in an insightful company visit, gaining firsthand knowledge of industry practices and networking with professionals to enhance my understanding of the field.