

## Dhruv Patel

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## EDUCATION

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**Rutgers University**, New Brunswick, NJ

May 2027

*BS in Biomedical Engineering | Minor in Business Administration | Engineering Honors Academy*

*Relevant Coursework:* Intro to Computers (MATLAB), Differential Equations, Intro to Experimentation, Honors Physics III, Honors Intro to Engineering, Honors Mechanics Statics, Biological Research Lab, Intro to Biomedical Engineering, Physiological Systems for BME

**Cedar Creek High School**, Egg Harbor City, NJ

June 2023

*High School Diploma | Engineering Magnet Program | Weighted GPA: 105.6/100*

*Relevant Coursework:* Honors Intro to Engineering Design, Honors Principles of Engineering, Honors Digital Electronics

## EXPERIENCE

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**Jupiter Academy's Clinical Research Program**, *Student*, Virtual

June 2025 – current

- Comprehensive curriculum aligned with USFDA, Health Canada, and EU regulatory agency guidelines; skills and technical knowledge applicable to Clinical Trials and Bio-equivalence & Bio-availability (BA/BE) studies worldwide.
- Covers fundamentals of clinical trials, research methods, regulations, and good practices; prepares you for roles like Clinical Research Associate (CRA), Clinical Research Coordinator (CRC), and more.

**NovoPedics Orthopedic Laboratory**, *Researcher*, New Brunswick, NJ - Unpaid

April 2025 – current

- Perform plasma extraction from collected blood samples to engineer biocompatible meniscus membranes.
- Conduct experimental trials, collecting and analyzing stress and strain data on the meniscus and surrounding ligaments.
- Developed and conducted comprehensive in vitro testing protocols to assess short- and long-term biological responses of engineered meniscus membranes to controlled mechanical and chemical stimuli.

**Honors Design & Development Semester Project**, *Member*, New Brunswick, NJ - Unpaid

January 2025 – May 2025

- Created a software for a computer mouse designed for people with hand tremors. The software eliminates the shaking that appears due to hand tremors and makes it easier to navigate and click buttons.
- Created an ergonomical and tailored mouse design with straps that can be used by people with striated hand deformities.
- Chosen to present product at annual Honors Symposium in front of ~200 students and deans.

**CompTIA ITF+, IT Fundamentals Pro**, IT Professional Certificate, Virtual

January 2025

- Introduction to basic IT knowledge and skills such as IT concepts and terminology, infrastructure, applications and software, software development, database fundamentals, and security.

**Ideal Institute of Tech. & RobotLAB South Jersey**, *Robotics Intern*, Pleasantville, NJ - Paid

June 2024 – August 2024

- Designed and built an articulated LED Iron Man helmet using a microcontroller, while creating reports, documentation, financial sheets, and an assembly video and guide showing the full process on how to replicate the project.
- Research on the Ultracortex Mark IV helmet to record and manipulate EEG brain waves captured by different types of electrodes to wirelessly control different electronic devices and machines.

**Dunkin'**, *Crew Member*, Galloway, NJ - Paid

January 2023 – January 2025

- Provided customer service by handling food and drink orders, drive-thru operations, fixing broken receipt and POS machines, managed cash transactions and maintained financial records throughout the day.
- Trained/mentored many new hires, ensuring they had the proper job training and all the accurate paperwork to legally work.

**Honors Intro to Engineering Semester Project**, *Member*, New Brunswick, NJ - Unpaid

September 2023 – May 2024

- Collaborated on a semester-long project addressing a human-centric, real-world problem.
- Developed a wearable system integrated into a fanny pack, utilizing ultrasonic sensors, microcontrollers, and a vibration motor to measure the distance between a person and an object.
- Implemented varying vibration strengths to warn and deter the person, based on the proximity to the object.