

JUSTIN SAPUN

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EDUCATION

Dartmouth College, Hanover, NH

June 2025

Bachelor of Engineering, Major in Computer Engineering:

GPA 3.9/4.0

Relevant Coursework: Embedded Systems, Digital Electronics, Software Development

Honors/Awards: Academic Distinction Citation in Modern Statistic Computing

Bard College, Great Barrington, MA

June 2024

Bachelor of Arts, Major in Computer Science:

GPA 3.9/4.0

Relevant Coursework: Theory of Computation, Algorithms and Data Structures, Algorithmic Trading

Honors/Awards: Dean's List 4/4 Semesters, Johns Hopkins Center for Talented Youth Annual Scholarship Recipient (2020, 2021)

PROFESSIONAL EXPERIENCE

The Electrified Garage, Amesbury, MA

June 2023-August 2023

Technician/Intern

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Formula One Hybrid, Hanover, NH

January 2023-June 2023

Controls Technician

- Implementing front end data visualization dashboard to monitor card or live data from various sensors equipped.
- Implementing traction control module that works in tandem with torque vectoring and electronic differential.

Robotics Club, Great Barrington, MA

September 2021-May 2022

Robotics Engineer

Windsor Custom Creations, Princeton Jct, NJ

May 2020-August 2022

Co-Founder, Designer, Builder

PROJECTS

Electric Motorcycle Conversion, Great Barrington, MA

August 2023-Present

Lead Technician

- Independently designed and constructed the low voltage electrical system ensuring seamless integration of new components and compliance with safety standards.
- Developed and implemented innovative wiring solutions, including custom harnesses and control systems, resulting in a reliable and efficient operation of the high voltage drivetrain.

Morse Code Decoder Game, Hanover, NH

March 2023-June 2023

Logic Designer

- Designed and implemented the Morse Code decoding circuitry for a Morse Code VGA Decoder Game, demonstrating expertise in FPGA programming and real-time signal processing.

Inverted Pendulum, Hanover, NH

March 2023-June 2023

Feedback System Designer

- Orchestrated the design and implementation of the feedback control system for an Inverted Pendulum Balancer, applying PID control algorithms to achieve remarkable stability and balance.

Tiny Search Engine, Hanover, NH

January 2022-March 2023

Programmer

- Collaboratively developed a robust Tiny Search Engine in C, leveraging teamwork to create efficient indexing and query processing algorithms, enhancing search accuracy and speed.

Remote Control Car, Hanover, NH

January 2022-April 2023

Embedded Programmer

- Leveraged expertise in embedded programming to lead the development of a remote control car powered by the ATmega328P chip, enabling precise control and real-time data exchange with the Adafruit wireless dashboard.

SkiWell Safety Device, Hanover, NH

September 2022-November 2022

Designer, Builder

- Engineering Project geared towards providing skiers with more safety and security on the mountain through a wearable medical apparatus that can be activated automatically when a crash has taken place or via user input.
- Implemented 2 preliminary designs that required coding in C, circuit building, and CAD manufacturing.

LEADERSHIP & SERVICE

Storrs Hill Ski Patrol , Storrs Hill, NH <i>Volunteer Ski Patroller</i>	December 2022-May 2023
Dartmouth Men's Volleyball , Hanover, NH <i>Middle</i>	September 2022-June 2023
Economics and Finance Club , Great Barrington, MA <i>Vice-President</i>	September 2020-May 2022
Camelback Ski Resort , Tannersville, PA <i>Ski & Snowboard Instructor</i>	December 2018-April 2020

SKILLS & INTERESTS

Programming Languages: Python, Java, C, MATLAB, R, VHDL

Software Skills: Microsoft Office Suite, Algorithm Development, Data Analysis

Additional Interests: Circuit Building, Robotics, Golf, Woodworking, Website Building, Research