

# JUSTIN SAPUN

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## EDUCATION

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**Dartmouth College**, Hanover, NH **June 2025**  
**GPA 3.9/4.0**  
*Bachelor of Engineering, Major in Computer Engineering:*  
Relevant Coursework: Embedded Systems, Digital Electronics, Software Development  
Honors/Awards: Academic Distinction Citation in Modern Statistic Computing

**Bard College**, Great Barrington, MA **June 2024**  
**GPA 3.8/4.0**  
*Bachelor of Arts, Major in Computer Science:*  
Relevant Coursework: Theory of Computation, Algorithms and Data Structures, Machine Learning  
Honors/Awards: Dean's List 5/6 Semesters, Johns Hopkins Center for Talented Youth Annual Scholarship Recipient

## PROFESSIONAL EXPERIENCE

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**The Electrified Garage**, Amesbury, MA (Seasonal) **June 2023-August 2024**  
*Technician*

- Conducted comprehensive diagnostics, repairs, and software updates for electric vehicles, showcasing proficiency in EV systems and technology.
- Demonstrated strong customer service skills and prioritized safety compliance while assisting with electric vehicle conversions, contributing to a seamless and efficient service experience.

**Formula One Hybrid**, Hanover, NH **January 2023-Present**  
*Controls Technician*

- Implemented a front-end data visualization dashboard to monitor recorded or live data from various sensors equipped.
- Helped Implement a 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

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**Electric Motorcycle Conversion**, Great Barrington, MA **August 2023-August 2024**  
*Lead Technician*

- Designed and built a 30-series LiFePo4 battery pack managed internally by a BMS. Implemented 3 speed function and variable regen with a LED display. Tested HV and LV systems to ensure basic operation, followed by drivetrain testing.
- Independently designed and constructed the low voltage electrical system ensuring seamless integration of new components and compliance with safety standards.

**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.

**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.

## LEADERSHIP & SERVICE

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**Storrs Hill Ski Patrol**, Storrs Hill, NH (Seasonal) **December 2022-Present**  
*Volunteer Ski Patroller*

**Dartmouth Men's Volleyball**, Hanover, NH **September 2022-Present**  
*Middle Blocker*

**Economics and Finance Club**, Great Barrington, MA **September 2020-May 2022**  
*Vice-President*

**Camelback Ski Resort**, Tannersville, PA **December 2018-April 2020**  
*Ski & Snowboard Instructor*

## SKILLS & INTERESTS

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

Software Skills: Microsoft Office Suite, Algorithm Development, Data Analysis, Linux, GitHub, CLI, SSH

Additional Interests: Circuit Building, Robotics, Golf, Woodworking, Machine Learning, Research