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 3.8/4.0**
Relevant Coursework: Theory of Computation, Algorithms and Data Structures, Algorithmic Trading
Honors/Awards: Dean's List 5/5 Semesters, Johns Hopkins Center for Talented Youth Annual Scholarship Recipient

PROFESSIONAL EXPIERENCE

The Electrified Garage, Amesbury, MA   **June 2023-August 2023**
Technician/Intern
- 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-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
- Designed and built a 30 series LiFePo4 battery pack managed internally by a BMS, which can be externally controlled. Tested HV and LV systems to ensure basic operation.
- 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

Storrs Hill Ski Patrol, Storrs Hill, NH   **December 2022-May 2023**
Volunteer Ski Patroller
Dartmouth Men's Volleyball, Hanover, NH   **September 2022-June 2023**
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

Programming Languages: Python, Java, C, VHDL, MATLAB, HTML
Software Skills: Microsoft Office Suite, Algorithm Development, Data Analysis, Linux, GitHub
Additional Interests: Circuit Building, Robotics, Golf, Woodworking, Website Building, Research