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Looking ❖ For ❖ Internship ❖ Medford, MA

EDUCATION

University You Haven't Heard Of   **Jun. 2027**
Bachelor of Science in Electrical Engineering   *Medford, MA*
- **GPA: 4.0/4.0**; Dean's List
- **Relevant Coursework**: Introduction to Computer Science, Data Structures, Discrete Mathematics; Multivariate Calculus; Linear Algebra

WORK EXPERIENCE

Research Lab   **Sep. 2023 - Present**
Research Assistant   *Medford, MA*
- Developed a reaction-diffusion model for MBE growth using Python
- Built system to monitor cooling tank using thermocouple, 3d-printed jig, and Raspberry Pi
- Presented research findings through poster at North American Conference on Molecular Beam Epitaxy (NAMBE) and ECE poster competition (earned 2nd place best poster, $250 award)

Research Lab   **Jun. 2024 - Aug. 2024**
Research Assistant   *Ithaca, NY*
- Appointed to position through competitive application process
- Developed algorithm using Python, OpenCV, and NumPy to extract rotation phase from RHEED feed
- Presented research findings through presentation, poster, and write-up to lab

Solar Vehicle Club   **Sep. 2023 - Present**
Electrical Team Member / Treasurer / Project Manager   *Medford, MA*
- A student-led project focused on designing and building solar-powered vehicles
- Developed electroluminescence testbench using Raspberry Pi camera for solar cell quality verification
- Managed budget of nearly $100k and raised $12k through presentations to funding committees

PROJECTS

PDF Snake   **Jan 2025**
- Implemented classic arcade game using PDF JavaScript support
- Open this file in Chrome and click start!

[JumboAppetit](#)   **2023-2024**
- Developed app to view dining menus, share dish ideas, and calculate nutritional information
- Used react native to build frontend and Python and FastAPI to build backend.

Open-Source Contributions   **2022 - 2023**
- [Various](#) [Open](#) [Source](#) [Contributions](#)

SKILLS & INTERESTS

- **Software Skills**: NumPy; OpenCV; Python; C++; C; Arduino; Raspberry Pi; ESP32; Verilog; VHDL; Git/GitHub; Unix Shell; Docker; Fusion 360; Onshape; L-Edit; FPGA; Zynq
- **Interests**: Semiconductor Devices; Nanotechnology; Renewable Energy; Skiing