Aaron Schurman

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Education

B.S. Electrical and Computer Engineering   **GPA - 3.74**

University of Colorado at Boulder   2025

Experience

Electrical Engineer - Intern   Apr - Sep 2021 **|** May - Aug 2022 **|** May - Aug 2023

Newforge Technologies - Newtown, PA

- Co-Inventor novel of Illumination Roasting technology (see patent info below)
- Constructed an ultra-high vacuum system for testing and processing solar cells that flew on the successful NASA DART mission to redirect asteroid Dimorphos
- Wired and Assembled large area UV light source
- Employed python and C++ for data exploration and visualization, tools used: Jupyter notebooks, matplotlib, pandas, numpy
- Software lead for designing embedded control system on microcontrollers utilizing GRBL and Modbus

Research Assistant   Mar - Dec **|** 2022

(COSINC) Colorado Nanofabrication and Characterization Lab - CU Boulder, CO

- Assisted in assembly of large scanning electron microscope (SEM)
- Responsible for managing flow of gas in lab space to SEM's
- Actively manage resources in lab space to ensure smooth user operation

Design Editor and Published Author   Jan - Present **|** 2022

The Colorado Engineer - CU Boulder, CO

- Authored articles in magazine issues studying accomplished engineering missions such as the JWST
- Acted as creative lead utilizing Adobe InDesign to design and configure all articles in current issue

Patents and Technologies

Illumination Roasting

Co-Inventor | Patent filed in August of 2023 | Application Number PCT/US23/72708

Additional Experience

Ski Instructor, Full-time   Jul 2020 - Mar 2021

Stratton Ski and Snowboard School - Stratton, VT

- Taught skiing to ages 3 to 60 from basics to aerial and park tricks
- Independently managed groups of children down all mountain terrain
- Proactively sought out training for improved teaching effectiveness

Technical Skills

Embedded Systems **|** Linux **|** Python **|** C++ **|** C **|** HTML **|** Arduino **|** Raspberry Pi **|** Data Visualization **|**
LED Systems **|** G-Code **|** Modbus **|** LTSpice **|**

Honors and Awards

Eagle Scout - Troop 99   **|**   Awarded CU Boulder Presidential Scholarship