

# Aaron Schurman

Website - <https://aaronsturman.github.io/AaronSchurman/>

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## Education

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### B.S. Electrical and Computer Engineering

GPA - 3.74

University of Colorado at Boulder

2025

## Experience

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### Electrical Engineer - Intern

Apr - Sep 2021 | May - Aug 2022 | May - Aug 2023

Newforge Technologies - Newtown, PA

- Co-inventor of novel 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, designing embedded control systems 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

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### Illumination Roasting

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

## Additional Experience

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### 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

## Technical Skills

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Embedded Systems | Linux | Python | C++ | C | HTML | Arduino | Raspberry Pi | Data Visualization |

LED Systems | G-Code | Modbus | LTSpice |

## Honors and Awards

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Eagle Scout - Troop 99 | Awarded CU Boulder Presidential Scholarship