

Marc Tchona

605-389-6708 | Rapid City, SD | marc.tchona@mines.sdsmt.edu

https://can-tgetmorenormal.github.io/marc_tchona/ | [linkedin.com/in/marc-avent-tchona](https://www.linkedin.com/in/marc-avent-tchona)

Summary

Electrical Engineering senior with a hands-on approach to embedded systems, automation, and power electronics. Experienced in bridging hardware and software with a track record of practical design and leadership. Passionate about solving technical and creative challenges.

Education

South Dakota Mines (SDSM&T;) – Rapid City, SD

B.S. Electrical Engineering, Expected May 2026 | GPA: 3.2 | Dean's List (Spring 2022)

Skills

Programming: Python, MATLAB, R, Arduino, HTML/CSS

Tools & Frameworks: Django, SolidWorks, LTspice, PSpice, Ngspice, Electron

Hardware: Circuit design, PCB layout, microcontrollers, sensor integration

Languages: English (fluent), French (fluent)

Experience

Quanta Services – Project Management Intern | Rapid City, SD | Summer 2025

- Supported project managers with budgeting, data management, and documentation.
- Gained exposure to cost-plus vs. lump sum workflows on substation and switchyard builds.
- Assisted in project estimation and timesheet tracking using Excel and HCSS/Procore.

Teaching Assistant – South Dakota Mines | Aug–Dec 2024

- Led lab sessions for 30+ students; streamlined troubleshooting procedures.
- Provided technical feedback on circuit labs to reinforce student understanding.

Testing Engineer Intern – South Dakota Mines | Jun–Aug 2024

- Designed a digital-to-three-phase signal converter to enhance lab reliability.
- Built a front-end interface using HTML/CSS and Electron for streamlined lab tool access.

Projects

OCR + Django Inventory System (Independent): Django-based web app with OCR for purchase order extraction; integrated with InvenTree for barcode scanning.

Smart Cart Checkout System (Team of 4): Prototype shopping cart with automated checkout features.

Line-Following Robot (Team of 3): Sensor-driven robot for autonomous path tracking.

Solar Panel Reliability Testing (Team of 3): 6-week study mapping I-V characteristics under varying light exposure.

Leadership

International Students Organization (ISI) – South Dakota Mines

President (2023–2024): Directed 100+ members, hosted cultural expos, raised \$1,000 through fundraising.

Secretary (2024–Present): Maintain records, coordinate events, ensure continuity.

Honors & Involvement

Dean's List (Spring 2022)

Member, IEEE