

Elior A. Bilow Makler

(970) 596-7127

eliorbilow@gmail.com

Portfolio: linktr.ee/eliorbilow

Project and Research Experience

- Air, Water, and Electricity to Gasoline Reactor | Personal *05/2025 - Present*
- AC Motor Speed Controller with Feedback | ECEN 5613 *10/2025 - 12/2025*
- Sound Effect Button | Personal *05/2024 - 06/2025*
- Communications Lead and Team Member | CSM Capstone Project *09/2021 - 05/2021*
- Injection Molder Project | CSM MEGN301

Education

University of Colorado at Boulder (CU Boulder) *Graduating 05/2027*

- Master of Science, Electrical and Computer Engineering
- GPA: 4.00

Engineer in Training, FE Mechanical Engineering *Certified 06/2023*

Colorado School of Mines (CSM) *Graduated 05/2022*

- Bachelor of Science, Mechanical Engineering
- Graduated with a 3.75 GPA.
- Awards: Magna Cum Laude; John Steele Commemorative Service Award; Dean's List; Grand Challenges Scholar

Employment

NIST | Graduate Research Assistant *01/2026 - Present*

- Designed and tested neuromorphic computing hardware to perform machine learning using multiplexed gradient descent.

Tune Outdoor | Electrical Engineer *02/2026 - Present*

- Performed forensic analysis and developed solutions to decrease failure rate of custom electrical systems. Solution was implemented in 04/2026 and there are no known failures since implementation.
- Performed product development for a 50% gross margin premium LED solution by communicating with foreign OEMs, sourcing products and quotes, and testing samples to give recommendations on a complete system to leadership.

NEI Electric Power Engineering | Transmission Line Engineer II *05/2022 - 09/2025*

- Led design and client communication for one 500kV tie line (through construction), two 345kV lines (through 90% design), and 5+ route analyses (through 10% design) after 2.5 years of experience.
- Delivered 8+ transmission projects from contract to construction (>2 projects annually), totaling over 50 miles of infrastructure.
- Promoted from Intern to Engineer II in 14 months (minimum timeline under company policy).
- Developed three company tools to streamline design processes and increased billable hours by 12% over three years.
- Designed steel, concrete, and wood poles with pier and direct embed foundations. Performed electrical parameter analysis with HERBS and other internal tools.
- Produced 1-3 client-ready technical reports weekly.

Colorado School of Mines | Teaching Assistant *09/2018 - 05/2022*

- Taught heat transfer, manufacturing, aerodynamics, and robotics.
- Received John Steel Commemorative Service Award as department's most sought-after TA, recognized for developing enhanced course materials and teaching effectiveness across four engineering disciplines.

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Skills and Interests

- **Software:** LTspice, KiCad, Altium, Matlab, C/C++, 8051 Assembly, Solidworks CSWP.
- **Technical:** 8051 architecture, PCB design, digital and analog diagnostics, microcontrollers, DFM, DFT.
- **Communication:** English (C2), Spanish (C1), client communication, technical writing.
- **Soft Skills:** Project management, professional communication, self-learning, analytical thinking, problem solving, mentoring.
- **Hobbies:** Paragliding, Magic: The Gathering, cooking, telemark skiing, foam fighting, cross-country skiing, experimenting/inventing, mountain biking, partner dancing.