Albuquerque, NM • +1 530-949-0158 • 08lbutler31@gmail.com

github.com/r-butl • linkedin.com/in/lucas-butler-bb52b119b

Lucas Butler

Summary

A dedicated Computer Engineering graduate student with exceptional programming skills, particularly in Python and embedded systems. Proficient in machine learning and automation methodologies aimed at enhancing engineering processes. Eager to leverage hands-on system integration expertise and a solid understanding of silicon validation cycles at Cadence.

Skills

Programming: Python, C, C++, SQL, TypeScript, JavaScript
Frameworks/Tools: TensorFlow, PyTorch, Docker, Jupyter, OpenCV
Technologies: Embedded Systems, Machine Learning, Data Science, System Validation, Automation

Work Experience

Software Engineer Intern

Sandia National Laboratories, Albuquerque, NM • Sept '23–Present

- Developed a data extraction pipeline that processed resumes in real-time, enhancing HR efficiency by reducing manual data entry time from 3-5 minutes to 1 minute per resume.
- Engaged in LLM application for requirement analysis, leading to an estimated savings of $300,000,000 in reengineerin$

Manufacturing Engineer Intern

SMC, Ltd, Santa Rosa, CA • May '22–Aug '22

- Spearheaded a redesign project for automated systems, improving efficiency by 30 minutes per operational changeover.
- Implemented statistical process control to identify and resolve production inefficiencies, reducing costs by 25

Education

California State University, Chico, CA

- **M.S. in Computer Science** (Aug '24 - Expected Dec '25)
  GPA: 3.883, Research on machine learning techniques for acoustic signal processing.
- **B.S. in Computer Engineering** (Aug '21 - May '24)
  GPA: 3.85, Coursework in embedded systems, machine learning, and control systems.

Leadership & Awards

Awards: Cum Laude (2024), Computer Engineering Faculty Award (2024)
Leadership: Team Captain, Men's Club Basketball; Finance Lead, Formula SAE