

Chico, Ca  
5309490158

# Lucas Butler

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## Education

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**Chico, Ca** **California State University** **August 2021 | May 2024**

- BS in Computer Engineering. GPA: 3.83

**Chico, Ca** **California State University** **August 2024 | December 2025**

- MS in Computer Science. GPA: 3.75

## Work Experience

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**Software Engineer Intern** **Sandia National Laboratories** **May 2023 – Present**

Albuquerque

- Contributed features to full stack applications.
- Developed Agentic control loops.
- Conducted research and developed prototypes.
- Wrote presentations.

**Manufacturing Engineer Intern** **SMC Ltd.** **May 2022 – August 2022**

Santa Rosa, Ca

- Designed and developed automation system components.
- Conducted quality analysis of production parts.

## Skills

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- Programming Languages: Python, C++, C, Javascript, Typescript, Bash, System Verilog
- Frameworks: React, Node.js, OpenCV, Pytorch, Tensorflow, Scikit-Learn, Matplotlib, NumPy, Pandas, ROS2

## Project

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- **Ohhlio** (<https://ohhlio.netlify.app/>) A tool for helping applied engineers make visual portfolios with ease. React, Typescript, PrismaORM, Node.js, Docker, Vite, TailwindCSS/Shadcn
- **Automated Driver Assist System** (<https://github.com/r-butl/ADAS-System>) A 4 feature ADAS system that runs 25+ fps on a Jetson Nano 4g. C++, OpenMP, PThreads, TensorRT, OpenCV, YoloV11, Python
- **Elephant Listening Project** (<https://www.spiedigitallibrary.org/conference-proceedings-of-spie/13454/305199-comparison-of-machine-learning-multiband-sensor-fusion-models-for/10.1117/12.3051994.short>) Conducted a comparison of CNNs and RNNs on the task of detecting elephant rumbles in the infrasound region of noisy forest audio recordings from South Africa. Tensorflow, Python, Numpy, Pandas, Singularity Containerization, Jupyter, SciPy, Matplotlib

## Awards

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- **Cum Laude** (CSU Chico) Recognized for academic excellence. May 2024
- **Engineering Faculty Award** (CSU Chico) Recognized for leadership amongst my peers. May 2024