

# Alexander Wilson

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CONTACT *E-mail:* [awlego@gmail.com](mailto:awlego@gmail.com)  
INFORMATION *Location:* Bay Area, CA

OBJECTIVE Full time position making positive impacts through machine learning.

EDUCATION **California Institute of Technology**, Pasadena, CA, USA  
B.S., Electrical Engineering **June 2014**

EXPERIENCE **Independent Machine Learning Research** **January 2023 – Current**  
• Interpretability research on acquisition of chess knowledge in deep reinforcement learning systems (Lc0)

**Senior Machine Learning Engineer** **April 2020 – November 2021**  
**Machine Learning Engineer** **April 2019 – April 2020**  
**Kuna Systems**

- Leading Kuna's AI/ML team.
- Developing embedded and cloud-based machine learning models for computer vision and object detection.
- Building tools for data collection, model analysis, and debugging error modes.

**Machine Learning Engineer** **November 2017 – April 2019**  
**Striiv, Inc**

- Ran machine learning development at Striiv for heart diagnostic program
- Built Striiv's machine learning products from the ground up, quickly built out a working architecture as we scaled our ML offerings.
- Experience with novel feature extraction, data collection and cleaning, and the training and tuning various kinds of supervised machine learning models.
- Integrated prediction models into a productionized solution.

**Firmware Engineer** **July 2015 – November 2017**  
**Striiv, Inc**

- Implemented new firmware features, improved system battery life.
- Engineering of newest electrical hardware: circuit design, PCB layout, bringup, power optimization, and mass manufacturing support with overseas partners.

**Electrical Engineer** **September 2014 – April 2015**  
**Motivo Engineering**

- Lead electrical engineer for multi-purpose electric tractor prototype project.
- Developed custom NFC hardware and firmware for cost-sensitive consumer toy.
- Wrote proposals, completed in-depth trade studies, and managed multiple simultaneous projects in a small team environment.

**Electrical Engineer Intern** **Summers 2012 – 2014**  
**Avionics Remote Input/Output Team, SpaceX**

- Developed custom circuits and PCBs for a 4-quadrant torque motor controller, optical oxygen sensor, 24-channel power distribution board, and remote input output controller.

**Custom Circuit Entrepreneur** **July 2011 – September 2012**  
**Engineered, produced, and sold professional RGB laser driver circuits**

- Sole designer, tester, producer, and marketer of circuitry that safely regulates the power levels of 3 lasers, mixing the colors in 30+ preprogrammed effects.
- Successfully turned an idea into a marketable product, all the way from inception to production.