



OVERVIEW

Founded in 1994, AED thrives on solving intricate design challenges and developing innovative solutions for a diverse clientele. Client engagements range from small technical assistance to full turn-key product development.

Advanced Electronic Designs, Inc. (AED) is an electronics engineering product design and development firm located in Bozeman, Montana

With a focus on efficiency and effectiveness, AED leverages past designs to accelerate the development process and reduce risk. Our nimble and responsive engineering team coupled with in-house quick-turn prototype manufacturing capabilities significantly shortens development timelines. AED's approach to engineering can lead to new products and features not initially imagined, turning single products into multi-market opportunities.

AED has deep expertise and proven capabilities across a broad range of product development disciplines, including extensive FPGA development expertise. Whether you have a preliminary concept or comprehensive design specifications, AED is your partner in converting ideas into final product design solutions.

WHAT WE OFFER

29

Years in Business

4

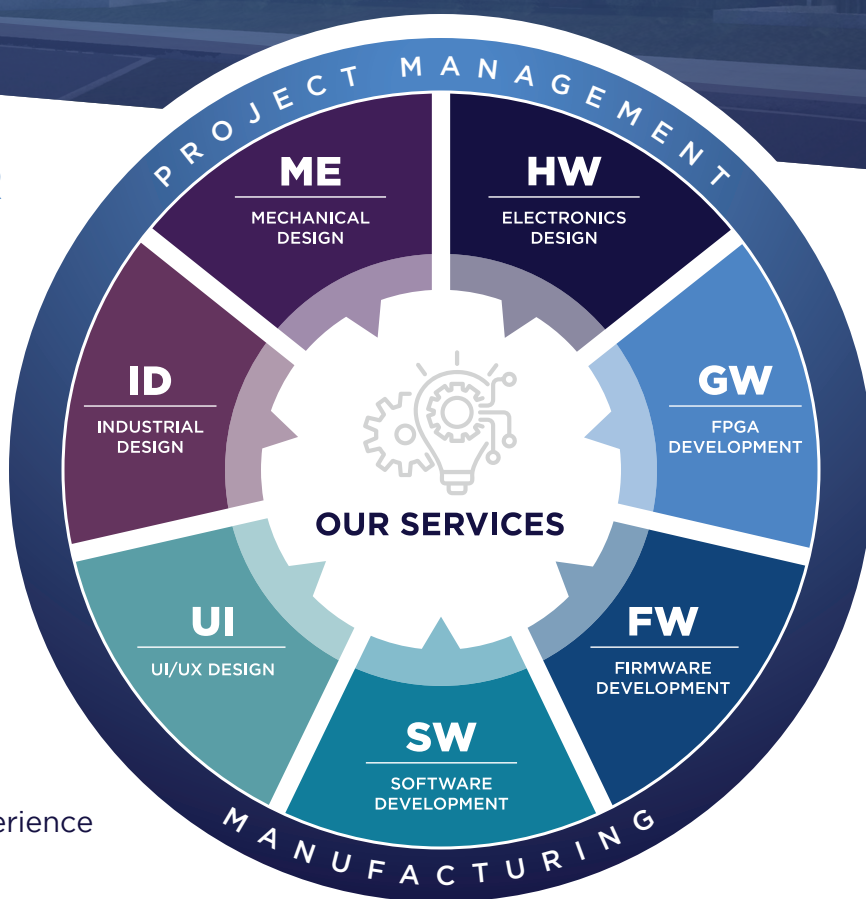
Licensed Professional Engineers

290

Years of Engineering Experience

22

Average Years of Engineering Experience



READY TO LEARN MORE?



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OUR WORK

AED is a leader in product design and development spanning numerous industries.



AUDIO, VIDEO & BROADCAST

Ultra high resolution camera with custom sensor

High-bandwidth FPGA based video and graphics processing >400 Gbps

SMPTE ST 2110 audio/video over Internet Protocol



AUTOMOTIVE & TRANSPORT

RFSoc FPGA based LiDAR data acquisition

LiDAR Scan Mirror Control

Lithium ion battery rapid test and evaluation systems



DEFENSE & AEROSPACE

Tactical data gathering and communications equipment

Imaging for International Space Station

Military life extension programs



SCIENTIFIC & MEDICAL

Neuroscience wireless EEG patient monitor

Life support ventilator

Medical simulators for training



COMMUNICATIONS & NETWORKS

100GbE networking and FPGA packet processing

PCIe 4.0 networking and NVMe storage controller

Secure wireless mesh networks



TEST & MEASUREMENT

Machine vision / optical calibration systems

Laser based surface inspection

Pathogen DNA detection and analysis system



MECHATRONICS & ROBOTICS

Battery powered unmanned vehicle

Drone fan and gimbal controller

Precision motor control for robotics



SOFTWARE

Cloud management system for distributed digital signage

Custom embedded Linux systems

Multi-model generative AI system for generating HTML & image-based user interfaces



IOT

PoE based building automation system

Wi-Fi, BLE, and LoRa sensors and control devices

BLE cell phone apps for consumer product control

WHAT OTHERS SAY

“ Having worked with many engineers in the past, it is rare you get a group of such talented engineers all working on your project at the same time. This team is brilliant and a pleasure to work with. ”

– Meric Adriansen, D3 LED

“ This project with AED is regarded as one of the Workstation division's most successful contract design relationships ever. ”

– Dave Hodge, Hewlett-Packard