

ZOE ADAMS  
35471 Del Rey, Capistrano Beach CA 92624  
(949) 226-4162 · [zoe.adams@gmail.com](mailto:zoe.adams@gmail.com)  
<https://www.linkedin.com/in/zoe-adams-79293311>

Result driven technical leader with 20+ years of professional development experience, and a proven track record of delivery in fast paced full stack and cross domain environments. Adept at driving organizational growth and operational excellence through strategic leadership and technical, hands on working style with a focus on tangible and measurable outcomes.

## Work History

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### **Microsoft - PATH (Planner, Visio, Whiteboard) (2023 - present)**

#### **Partner Software Engineer**

- Led system architecture and technical strategy for a 300 person organization.
- Developed a novel multi-agent orchestration system for task planning and automation.

### **Relativity Space – Software And Avionics (2022-2023)**

#### **VP of Software and Avionics**

- Led 90 person organization including teams that delivered flight, embedded, and ground support software for Terran-1 and Terran-R vehicles, avionics hardware selection and design, HITL/HOOTL/VITL test infrastructure, and web services for telemetry data recording and presentation to vehicle operators.
- Drove a 3X decrease in software development timelines primarily by introducing an automated test driven development frameworks and establishing clear contracts between stakeholders.
- Spearheaded architecture for Factory OS, leveraging closed loop simulation to print feedback loop, sensor fusion telemetry, and an ontology/RDF for manufacturing processes and products.

### **Amazon Inc – Appstore and Alexa Devices (2014 – 2022)**

#### **Principal Software Engineer**

- Led redesign of the Echo product operating system to achieve a 4x BOM cost saving and improved client performance.
- Led initial prototyping and go to market for Alexa Gadgets (toy and game peripherals for Alexa Devices and backend for game skill development).
- Owned and operated discovery, search, and product metadata services for Appstore, Twitch Bits, and Alexa Skill Store.
- Created process for app ingestion and characterization, including validation on mobile hardware in a device lab.

### **Western Digital Corporation - Characterization and Reliability (2009 – 2014)**

#### **Senior Principal Engineer**

- Designed and operated Java application suite to characterize hard drive firmware, mechanical and electrical systems, and media.
- Designed an online reporting system to monitor lab resource utilization and perform statistical analysis of data across test populations.
- Created custom Linux OS test environment with modified device drivers to control test hardware and expose low level SATA and USB traffic.

### **Unitech America Inc. - Research and Development (2005 - 2009)**

#### **R&D Engineer**

- Wrote device drivers, kernel modifications, and applications for hand held and wall-mounted terminal systems running WinCE.
- Wrote functional logic for CPLDs in VHDL and provided verification and analysis of PCB design.
- Implemented and maintained LAMP stack website to provide issue tracking and customer interactions for marketing, repair and sales departments.

## Education

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**University of California, Irvine** · Certificate in Management For Technical Professionals, 2012

**California State University Long Beach** · Masters of Science in Computer Science option in Computer Engineering, 2011

**University Of California, Riverside** · Bachelors in Computer Engineering with minor in Mathematics, 2005

## Patents

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US10468027 US11195531 US10477649 US10127908 US10789948 US9684579 US10770092 US10356721 US9949344 US10194506  
US10366692 US11295735B1 US12190875