EFREN ALONZO CABEBE

Driven E/E & SW systems engineer pioneering the future of electric mobility.

CONTACT

📍 Please reach out for

☎ more contact details

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🌐 efrencabebe.com

EDUCATION

B.S Electrical & Computer Engineering
Cal Poly San Luis Obispo, 2015

CERTIFICATIONS

Functional Safety Professional in Automotive, ISO26262
kVA by UL

Engineer-In-Training
NCEES

PROFICIENCIES

General
Project Management
- JIRA, Smartsheets
Requirements Management
- JAMA, Polarion
Productivity Tools
- Microsoft Office Suite

Software
Languages
- C, C++, Python, Simulink
Software Development
- Git, BitBucket
Networking
- CAN *.dbc, LIN *.ldf, PCAP
Continuous Integration
- Jenkins

Hardware
Vehicle Testing
- Vector Tools, PCAN, Kvaser
Rapid Prototyping
- NewEagle Motohawk, NewEagle Raptor
Laboratory
- Digital Multimeters, Oscilloscopes, Network Analyzers, HV Tools

WORK EXPERIENCE

E/E Architect
05.2023 – Current
Czinger Vehicles – Los Angeles, CA

E/E systems architecture & integration for high performance, low volume hybrid sports cars.

Senior Systems Architecture Engineer
10.2019 – 05.2023
Rivian Automotive – Irvine, CA

One of the founding members of the Systems Integration & Architecture team.

- Vehicle Immobilizer Feature Owner - R1, Prime Van
- Vehicle Electrical Safety / Crash SW Integration Lead - R1, Prime Van
- Vehicle EDR Concept Design / Integration - R1, Prime Van
- Multi-Collision Braking System Design - R1, Prime Van
- Vehicle Variant Configuration Feature Owner – R1, Prime Van
- Alcohol Interlock Feature Owner – R1, Prime Van
- Factory Mode Feature Owner – R1, Prime Van

E/E Systems Integration Engineer
01.2018 – 10.2019
Zoox – Foster City, CA

First hire in newly formed E/E Systems Integration team.
E/E Integration

- E/E Integration Lead of various Body & Passive Safety controllers
- E/E owner of various vehicle safety and homologation features
- Patent US 10,960,776 awarded
- Formalized CAN & LIN network communications architectural development
- Developed internal & supplier-facing CAN & LIN network requirements
- Liaise cross-functionally with firmware, vehicle engineering and suppliers to ensure electrical / electronic integration

Hardware Architecture Engineer
05.2017 – 12.2017
Faraday Future – Gardena, CA

E/E Architecture

- Lead FF91 Vehicle E/E Architecture development via weekly coordination meetings with all vehicle domain architects
- Developed vehicle-level functional requirements for Core, Propulsion and Body
- Spearheaded in-part implementing a company-wide revamped feature development process with agile v-cycle methodologies
- Generated system arch. & signal sequence diagrams

Electrical Engineer
03.2015 – 05.2017
MOTIVO Engineering – Torrance, CA

Prototype vehicle development & bespoke product design
EV Powertrain Prototype Platform – Firmware / Controls Lead

- Lead gateway controller development for four generations of EV prototype vehicles

Transmission Controller – Technical Lead

- Spearheaded controls development of a bespoke EV prototype shuttle transmission controller