

Isaias Del Mundo

2064 Jubilee Dr Hayward, Ca 94541
Idelmundo68@gmail.com | (415) 596-0623

OBJECTIVE

Accomplished and goal-driven Engineering technician with 11 plus years of experience in automotive industry performing hands-on failure analysis on Powertrain electronics and batteries. I am seeking the opportunity for employment as an Senior engineering technician, using my knowledge and skills obtained from educational training and experience in the field of electronics (e.g. Troubleshooting, Testing, Repair and Assembly).

EDUCATION

UC Berkeley Extension – Full Stack Web Developer

Present-August 2020

College of San Mateo - Bart Transit Career Ladders Training program

Electrical technology: Electrical Power System and Instrument

Dec 2017

WyoTech (formerly Sequoia Institute) Fremont, CA

August 2008

Applied Automotive Technology

WORK EXPERIENCE

Zoxx, Foster City Ca

Vehicle test technician

- Support various engineering project crash test, wind tunnel, thermal test and noise, vibration and harshness (NVH)
- Operate/analyze/root cause issues on-vehicle by using canalyzer and PCAN explorer
- Wire harness and connector build/debug
- Vehicle instrument; thermocouples, accelerometers, DAQ's supplier test equipment, etc.
- Provide root cause analysis to engineer team for known vehicle issues
- Travel support all offsite vehicle development/testing
- Work cross-functionally with hardware/software integration team to support vehicle bring-up
- Provide remote CAN/memorator log review support for engineering test team.
- Train new contract team members on full vehicle architecture
- 3d print design various parts such as tooling and vehicle parts

Tesla Motors, Inc. Palo Alto CA

Sept 2016- Nov 2018

Hardware Development Test and Analysis Engineering Technician Lead

- Troubleshoot power conversion system (Model 3 charger), perform measurements of magnetics, contactors fuses and inductors
- Support engineering prototype projects and programs
- Operate and analyze power thermal cycling endurance (PTCE) and) high temperature endurance (HTHE data for Model 3 chargers
- Operate and analyze (CTS) coolant thermal shock and vibe table
- Oversee lab equipment orders
- Build test fixture out of 80-20 material
- Troubleshoot Prototype chargers (functional test and take measurements of caps fuses)
- Familiar with PCAN explorer and Kvaser memorator

Tesla Motors, Inc. Palo Alto CA

Oct 2010–Sept2016

Remanufacturing Technician

- Served as the technical lead for a 4-person team; managing day-to-day workflow and motivating the team to reach daily output goals.
- Performed PCBA-level diagnostics and rebuild for powertrain electronic product lines – including HV Chargers, Model-S Battery, Instrument Cluster & Center Display, and OEM products.
- Adhered closely to component installation specifications, ensuring all procedures were followed, testing procedures were thorough, and team was properly upskilled.
- Recognized as a team role model for maintaining high standards of workplace organization and safety, particularly dealing with high voltage safety practices.

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- Maintain test equipment and support engineering prototype builds.
- Constructed fluid exchanger for vehicle test equipment within manufacturing specification.
- Maintain inventory integrity and repair history through diligent record keeping and adherence to process.
- Create failure analysis training material and participate in training of production technicians.

Tesla Motors, Inc. San Carlos CA

Sept 2009 –Sept 2010

MRB Technician

- Led troubleshooting of power electronics systems through use of internal tools built within a Linux environment.
- Performed failure analysis on data from service centers to determine root cause and propose solutions to customer service requests.
- Collect data; update and maintain electronic and written records concisely and accurately.
- Communicate product failure details to design, product excellence, and reliability departments.
- Engage engineering resources from other teams to both learn and offer insights.
- Work with Material Review Board (MRB) to support Manufacturing for Roadster, Metro/W169, and 570A Toyota Program.

SKILLS

- HTML, CSS, Javascript, Node JS
- Proficient In: MS Office, Enovia, KiCad PCB, Soldering PCB/SMD
- Knowledgeable In: AC/DC Circuits, Altium basic schematics

CERTIFICATIONS AND AWARDS

- Certified, Hunter Tire and Snap-on Scanner
- Certified, ASE Alt. L1, A6, and A8
- Perfect Attendance, Honor Roll, Super Student and Professionalism Awards WyoTech