



ELIOT LANDRUM

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With over a decade of on-the-ground industrial automation experience, I have proven skills in solving complex problems in demanding situations with production at stake. Honesty and integrity to do what's right are hallmarks of both my personal and professional life. Effective in leading and organizing small engineering teams to finish projects on-time and on-budget. In all of my roles I have worked directly with customers and the sales team to accurately understand the needs of all stakeholders.

EXPERIENCE

LEAD SOLUTIONS ENGINEER FILAMENT (REMOTE, DENVER & RENO) WWW.FILAMENT.COM 2016-2019

Filament initially designed long-range wireless, ad-hoc network devices with strong security for industrial users, and pivoted in 2018 to Blockchain-enabled security hardware. In this role, interfaced with sales team and clients to ensure that the Filament products met project needs. Worked with firmware and product teams to ensure fit with new applications. Advised on industrial product needs.

- Designed rigorous testing plans for each release of Filament's custom LPWAN IoT devices. Used Amazon AWS EC2 and RDS as endpoints for analysis. Organized and led a small team to replicate testing.
- Installed small-scale IoT systems for customer evaluation to measure ambient environment and geo-location of moving assets. Used Amazon AWS EC2 and RDS for primary endpoints. Customer needs per project dictated any custom endpoints.
- Worked with partners to integrate Filament's custom LPWAN IoT devices with MQTT compatible endpoints.
- Designed and built custom demonstration projects using Python and JavaScript for sales team to use in customer pitches and conferences:
 - A tokenized autonomous vehicle charging demonstration showed how Ethereum smart contracts can be integrated with embedded hardware and robots. Used Amazon AWS EC2 to run a private Ethereum test network.
 - A solar panel electric microgrid showed how Ethereum smart contracts can be integrated with industrial hardware (a Modbus-speaking smart electricity meter).
 - An NFC and RFID demonstration showed using Ethereum for continuous monitoring of authorized inventory.

MES ANALYST STONE TECHNOLOGIES (REMOTE) WWW.STONETEK.COM 2011-2016

Manufacturing automation projects, specifically focused on Manufacturing Execution Systems (MES) and batching technologies.

Major clients and projects while at this position include:

Global medical device manufacturer

- Updated and implemented MES to monitor in-production components.
- Integrated new manufacturing line in Johor Bahru, Malaysia, with Factory Acceptance Testing in Cambridge, Ontario.
- On-going remote and on-site support throughout system validation and testing.

Fortune 100 liquor manufacturer

- With team of three, implemented new batch control system for large tank farm. Integrated and migrated existing tanks along with new batch system. Key technologies included Wonderware InBatch, Arcestra, and InTouch.
- Various projects expanding batch system for new product types.

Factory automation projects with a variety of travel and development requirements. Nearly all projects are direct to customer and are with two to three person teams.

Major clients and projects while at this position include:

Fortune 100 gourmet coffee manufacturer

- Led four person team over five months to re-develop and upgrade architecture of proprietary roasting software built with a Programmable Logic Controller (PLC) and Human Machine Interface (HMI).
- Led six person on-site team over six months, conducting the instrumentation and operational start-up of six industrial coffee roasters.
- Traveled to all production facilities in continental US and Europe to upgrade proprietary roasting software (PLC and HMI) on all industrial coffee roasters. Included a complete instrumentation and operational re-verification after each upgrade.
- Completed upgrade on R&D coffee roaster with experimental equipment to half production time.

Fortune 100 poultry and meats supplier

- Re-developed HMI supervisory application using innovative graphics and information display.
- Developed and implemented Supervisory Control and Data Acquisition (SCADA) system to monitor production and quality at five remote facilities. Included Overall Equipment Effectiveness (OEE) data, central recipe handling, and information website.

VOLUNTEER EXPERIENCE

MEETUP EVENT ORGANIZER (SOUTH LAKE TAHOE, CA) — 2014-2017

Founded and organized Meetups multiple times a month for Craft Beer enthusiasts. The group grew to over 400 members and each Meetup drew 20-30 attendees, many of whom were new to the area.

BOARD MEMBER, AMERICAN BICYCLING EDUCATION ASSOCIATION — 2014-2016

Help advise and manage the CyclingSavvy and iamtraffic.org initiatives. Run all technical back-end needs.

INSTRUCTOR, CYCLINGSAVVY DFW — 2014-2016

Taught numerous adult cycling education workshops and managed all social media properties.

EDUCATION AND CERTIFICATION

- LeTourneau University (Longview, Texas) - Bachelor of Engineering with Electrical and Computer Emphasis — 2000-2004
- Purdue University — Lean Six Sigma Green Belt
- Gordon Cates Award of Excellence 2008

TECHNICAL SKILLS

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| • Amazon AWS EC2, S2, RDS | • Rockwell RSLogix 5, 500, 5000, View ME, View SE | • VMware Infrastructure, ESX, Fusion | • Microsoft Windows Server, Terminal Services, SQL, Visio, Office |
| • Microsoft SQL Server T-SQL | • Wonderware InTouch, Historian, ArchestrA, Information Server, InBatch, MES Quality, MES Performance | • ACP ThinManager | • MySQL, PHP, Apache |
| • Electrical instrumentation calibration and configuration | • Raspberry Pi | • Inductive Automation FactoryPMI, FactorySQL | • HTML, CSS, XML |
| • Python | | • Linux (Debian, Raspbian, Ubuntu) | • Git |
| • JavaScript | | • SSH, PKI handling | • Ethereum Solidity Smart Contracts |
| • OPC-UA | | | |