

Matthew Eichenfield

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EXPERIENCE

McCain Inc. Multinational Intelligent Transportation Systems (ITS) supplier of controllers, signals, signs, and software Vista, CA
Engineering Manager July 2020 - Present

- Supervised a team of five engineers designing variable message signs and software customized for the US market
- Served as stakeholder and technical contact for Austrian sister company (Swarco Futurit) software team
- Led effort to design McCain's next generation of portable message and blank out signs with cellular modem integrations
- Developed a secure virtual environment to run legacy product services and software
- Wrote software compliant with federal and state specifications for changeable message signs
- Responsible for designing and presenting prototype solar system for Caltrans San Diego technology innovation fair

Signal Product Manager January 2017 - July 2019

- Product manager for the largest producer of traffic signals in North America representing ~one-third of company revenue
- Led mechanical engineering team and negotiated with vendors to develop a new modular light rail signal for SFMTA
- Worked with purchasing and Tijuana facilities team to establish vendor review processes for new and recycled thermoplastic
- Reviewed die-cast and injecting molding traffic signal process
- Led team to develop specialized HAWK Pedestrian Signal offerings for City of Phoenix
- Led efforts to modernize traffic signal backplates to comply with retroreflective border requirements
- Led team migrating legacy backplate punch process to new Amada laser system
- Worked with territory sales managers and customers to determine root causes analysis of a traffic signal failures occurring under extreme environmental conditions. Coordinated with distributor and RMA team to recall affected material. Worked directly with fastening solutions vendor to determine root cause failure and managed engineering change notification (ECN) process. Advised customer who was able to modify their thermoplastic specifications to avoid future issues.

Sign Product Manager September 2015 – July 2020

- Led bid pricing to successfully win three to five year Caltrans contract for CMS signs valued between 4 and 8 million dollars
- Served as primary contact for Caltrans Materials Engineering and Testing Services (METS) sign contracts. Coordinated all facility, products inspections, and scope change
- Took Caltrans AVMS 710 from prototype to engineering release. Model generated over 4.8 million in revenue in three years.
- Co-developed three sign models (CMS 600 series) with Caltrans San Diego (D11) as part of a federally funded 2.8 million dollar connected vehicle proving ground on I-15
- Designed McCain Variable Speed Limit using Swarco developed sign technology. Product was huge success leading to installation of 76 units on I-76 outside Philadelphia
- Led McCain effort migrating Swarco sign and signal technology from Columbia, TN to McCain's Tijuana, Mexico facility

SWARCO Traffic Americas Austrian based provider of intelligent traffic management solutions Carlsbad, CA

Senior Systems Engineer January 2014 – September 2015

- Designed signage for [Apple Park](#) (Cupertino, CA), [Exxon Mobil](#) (Spring, TX), and [Imperial Oil](#) (Calgary, Alberta)
- Designed complete parking guidance systems for [Exxon Mobil](#) (Spring, TX) and [Hobby Airport](#) (Houston, TX)
- Developed API and third party integration for traffic signage at [Facebook HQ](#) (Menlo Park, CA)
- Field commissioned and coordinated NTCIP software integration for [City of San Jose Arterial Signs](#) (San Jose, CA)

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Parking Systems Engineer March 2013 – January 2014

Software Engineer October 2009 – March 2013

EDUCATION

Hamilton College Clinton, NY

B.A., Major: Computer Science / Minor: Philosophy June 2009

- Computer Science Teaching Assistant
- Production Director & Chief Engineer 88.7FM - WHCL

UCSD Extension San Diego, CA

Project Management Bootcamp Spring 2018

ADDITIONAL

- *Languages:* English, Spanish (Conversational)
- *Software:* Jira, Confluence, Microsoft Project, Python, C#, Node.js, Git, Subversion, Amazon Web Services