

Daniel Strohfeltd

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Experience

Apptronik

December, 2022 – Present

Senior Software Engineer, Software and Controls

Austin, Texas, United States

- BMS bring-up and introduction for general purpose humanoid robot
- Created company's first automated embedded HIL testbed
- Created company's first automated embedded unit test and code coverage platform
- Integrated embedded software updater function for company's OTA update system
- Enabled traceability for manufacturing through secure flash memory data storage

Tesla, Inc.

December, 2021 started – July, 2022

Senior Software Engineer, Vehicle Software

Palo Alto, California, United States

- Embedded software development lead for 3YSX low voltage BMS
- Project planning and development of features for low voltage BMS of next generation vehicle products
- Led data reviews of field data to validate software releases before customer release software packages
- Maintained supplier relations and provided plans for new feature releases
- Vehicle controller platform bring-up, software development lead for SX 4th generation low voltage architecture

Tesla, Inc.

January, 2018 – December, 2021

Software Engineer, Vehicle Software

Palo Alto, California, United States

- Developed novel features and controls for next generation vehicle thermal system
- Maintained supplier relations to implement and develop features for vehicle refrigerant compressor
- Plaid Project - Nurburgring: Lead software development for thermal and low voltage systems
- Oil Pump Controller - 400 Mile EV: Lead software development for powertrain oil pump in SX products
- Model SX E-Fuse Controller - Full Self Driving: Lead software development for low voltage power distribution unit in SX products

Tesla, Inc.

January, 2017 – January, 2018

Software Engineer - Intern, Vehicle Software

Palo Alto, California, United States

- Software in the Loop - Body Controls Firmware: Developed a novel tool used to validate and verify new firmware features and test regressions on existing features, without existing hardware
- Developed firmware drivers and implemented front-end interfaces for non-existent features, maintained existing features of the platform
- Developed tests for manufacturing ride height calibrations and installations of suspension systems
- Tested new features of the Model 3 steering column which couldn't be verified using Hardware

University of Wisconsin - Milwaukee

August, 2015 – January, 2017

Research Assistant, Magnetic Flux Leakage

Milwaukee, Wisconsin, United States

- Designed and fabricated sensor payload, used to detect and track magnetic flux leakage in 3 axes
- Developed real-time data visualization software for field scans of steel reinforced concrete structures
- Developed post-processing software to isolate areas of structural defect, in order to identify locations at which the structure should be reinforced
- Wrote reports for the USFHWA, to show progress and relay technical information

Education

Bachelor of Science

Computer Engineering, University of Wisconsin - Milwaukee

Milwaukee, Wisconsin, United States

- Vice President, IEEE Student Organization

Graduate Coursework

Artificial Intelligence, Stanford University

Palo Alto, California, United States