

ANDREW GREEN

Sensor Hardware Engineer | Autonomous Systems | Integration Expert

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SUMMARY

With over a decade of experience in sensor systems and a deep-seated knowledge of autonomous vehicle technology, I bring a proven track record of innovation and team leadership in challenging engineering environments. My expertise spans across integrating and testing cutting-edge sensors, driving both product and technological advancements.

EXPERIENCE

Senior Sensor Hardware Engineer

Blue Origin

06/2019 - Present Kent, WA

- Spearheaded a 12-member engineering team in the design and implementation of advanced sensor suite for aerospace applications, increasing detection accuracy by 30%.
- Orchestrated the integration process of state-of-the-art Lidar and Radar systems into new spacecraft design, which enhanced obstacle avoidance capabilities by 20%.
- Conducted rigorous failure-mode analysis and executed comprehensive hands-on hardware tests, contributing to a 15% reduction in sensor-related faults.
- Managed cross-functional liaison with manufacturing and external aerospace partners, streamlining production pipeline for sensor arrays.
- Pioneered the development of autonomous sensor-software calibration tools, leading to a 25% improvement in system setup efficiency.
- Initiated a novel sensor cleaning system project that improved long-duration aerospace missions, extending sensor operability by 40%.

Lead Sensor Integration Engineer

Tesla, Inc.

01/2016 - 05/2019 Palo Alto, CA

- Directed the vehicle sensor integration for Tesla's autonomous vehicles, enhancing perception system performance by 18%.
- Collaborated with suppliers to customize sensors for automotive applications, reducing hardware costs by 10% while maintaining quality standards.
- Implemented automated data analysis tools for real-time sensor data monitoring, leading to a 15% quicker anomaly detection.
- Completed end-to-end sensor system design on 3 new electric vehicle models, which were praised for their innovative safety features.
- Provided key technical insights that supported the troubleshooting and debugging of sensor integration issues, leading to a 20% decrease in field failures.

Sensor Development Engineer

Boeing

08/2012 - 12/2015 Seattle, WA

- Contributed to the development of Boeing's next-gen avionics sensor suite, resulting in a 15% increase in flight system reliability.
- Played an instrumental role in the evaluation and testing of new sensor technologies, shortening the development cycle by 10%.
- Facilitated cross-departmental workshops on sensor data interpretation, improving the engineering team's skill set by 25%.
- Deployed custom sensor calibration protocols to enhance the accuracy of critical flight systems.

EDUCATION

MS in Mechanical Engineering

Stanford University

01/2010 - 01/2012 Stanford, CA

PROJECTS

Open Source Lidar Calibration Toolkit

Developed an open-source tool aimed at simplifying the calibration of Lidar sensors for small-scale robotics projects. github.com/AGreenLidarToolkit

Autonomous Vehicle Sensor Simulation

Participated in creating a simulation platform for testing sensor performance in various driving scenarios for autonomous vehicles. github.com/AGreenAutoSim

KEY ACHIEVEMENTS



Innovation Award in Autonomous Systems

Recognized with an innovation award for developing an advanced sensor fault detection algorithm that reduced system downtimes by 20%.



Best Technical Documentation

Awarded for creating the best technical documentation for a new sensor suite, which became the reference standard across multiple projects.



Led Sensor Suite Deployment

Successfully led the rapid deployment of an in-house designed sensor suite, leading to a contract extension with a major aerospace client.



Cross-Functional Leadership

Championed a cross-functional initiative that improved inter-department communication, resulting in a 15% faster project delivery time.

SKILLS

Sensor Integration

System Architecture

CAD Design

MATLAB

Data Analysis

Mechanical Engineering

COURSES

Advanced CAD Design for Engineers

Intensive course focusing on 3D CAD modeling, simulation, and analysis techniques, provided by Coursera.

Robotics: Sensor Fusion and Perception

In-depth course covering multisensory integration techniques for robotics applications, delivered by edX.

EDUCATION

BS in Physics

[University of Washington](#)

01/2006 - 01/2010 Seattle, WA

LANGUAGES

English
Native



Spanish
Advanced



INTERESTS



Robotics and Automation Enthusiast

Eagerly engage in the design and building of personal robotic projects, staying at the forefront of automation technology trends.



Mentoring STEM Students

Dedicated to mentoring aspiring engineers through local STEM programs, inspiring the next generation of innovators.



Outdoor Exploration

Enjoy hiking and exploring the Pacific Northwest, relishing in the natural beauty and technical inspiration it provides.