

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.