



MICHAEL ANDERSON

OPTICAL SENSOR ENGINEER

CONTACT

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- San Francisco, CA

SKILLS

- Optical sensors
- Materials science
- Photonic crystals
- Data analysis
- Experimental design
- Technical writing

LANGUAGES

- English
- Spanish
- French

EDUCATION

M.S. IN OPTICAL ENGINEERING,
UNIVERSITY OF CALIFORNIA, BERKELEY,
2014

ACHIEVEMENTS

- Led a project that resulted in a 30% reduction in sensor production costs.
- Received the 'Best Paper Award' at the Annual Sensors Conference in 2021.
- Successfully patented a novel optical sensor design now used in commercial products.

PROFILE

Results-driven Optical Physicist with 8 years of experience specializing in optical sensor technologies and materials science. My career has focused on the development and optimization of sensors used in environmental monitoring and industrial applications. I possess a solid foundation in photonic crystal fabrication and characterization. My hands-on experience with optical measurement techniques has led to the successful implementation of multiple projects that have enhanced sensor sensitivity and accuracy.

EXPERIENCE

OPTICAL SENSOR ENGINEER

EcoSensors Inc.

2016 - Present

- Designed and developed optical sensors for real-time environmental monitoring.
- Improved sensor accuracy by 40% through innovative optical designs.
- Conducted field trials to validate sensor performance under various conditions.
- Collaborated with software teams to integrate sensors into data acquisition systems.
- Authored technical documentation for sensor installation and maintenance.
- Trained staff on the operation and troubleshooting of optical sensors.

RESEARCH SCIENTIST

Photonics Research Lab

2014 - 2016

- Investigated novel photonic materials for use in high-sensitivity sensors.
- Developed measurement techniques to assess optical properties of materials.
- Collaborated with academic partners to publish findings in peer-reviewed journals.
- Presented research at national conferences, fostering collaborations.
- Participated in the development of a new optical measurement platform.
- Managed project timelines and resources to ensure successful outcomes.