



MICHAEL ANDERSON

LEAD RESEARCH ENGINEER

PROFILE

Accomplished Plasmonics Researcher specializing in the intersection of nanophysics and materials engineering. Over 12 years of hands-on experience in developing plasmonic devices with applications in telecommunications and medical diagnostics. Demonstrated proficiency in the design and fabrication of photonic structures, with a focus on enhancing device performance through innovative material selection and processing techniques.

EXPERIENCE

LEAD RESEARCH ENGINEER

Photonics Solutions Corp.

2016 - Present

- Directed research projects focused on the development of plasmonic waveguides for telecommunications applications.
- Implemented advanced fabrication techniques, improving device efficiency by 25%.
- Conducted extensive testing and characterization of plasmonic devices, ensuring compliance with industry standards.
- Coordinated with cross-disciplinary teams to align project goals with market needs.
- Mentored junior engineers, providing guidance on experimental design and data analysis.
- Published findings in top-tier journals, enhancing the company's reputation in the field.

POSTDOCTORAL RESEARCH FELLOW

University of California, Berkeley

2014 - 2016

- Investigated novel plasmonic materials for biosensing applications, achieving significant sensitivity improvements.
- Developed computational models to predict plasmonic behavior, facilitating the design of next-generation sensors.
- Collaborated with external partners to translate research findings into practical applications.
- Organized workshops and seminars to promote knowledge sharing among researchers.
- Contributed to grant writing efforts, successfully securing funding for ongoing research.
- Published numerous articles, contributing to advancements in the understanding of plasmonic phenomena.

CONTACT

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SKILLS

- Nanophysics
- Device Fabrication
- Optical Characterization
- Interdisciplinary Collaboration
- Data Analysis
- Grant Writing

LANGUAGES

- English
- Spanish
- French

EDUCATION

PH.D. IN MATERIALS SCIENCE, MASSACHUSETTS INSTITUTE OF TECHNOLOGY

ACHIEVEMENTS

- Recipient of the IEEE Photonics Society Graduate Fellowship for outstanding research contributions.
- Awarded the Best Research Presentation at the Annual Materials Research Society Meeting.
- Secured over \$750,000 in research funding through competitive grants.