MICHAEL ANDERSON

SURFACE CHEMIST

CONTACT

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San Francisco, CA

SKILLS

- Electrochemical analysis
- Coating formulation
- Problem-solving
- Team collaboration
- Laboratory techniques
- Technical writing

LANGUAGES

- English
- Spanish
- French

EDUCATION

M.S. IN MATERIAL SCIENCE, TECH UNIVERSITY, 2017

ACHIEVEMENTS

- Contributed to a project that won the 'Best Innovation Award' at a national conference.
- Improved testing efficiency by 30% through the implementation of new protocols.
- Published two papers in reputable journals on the effects of surface treatments on battery performance.

PROFILE

Dynamic Surface Chemist with 5 years of experience focusing on the electrochemical properties of surfaces in energy storage applications. Specialized in the development of conductive coatings that improve the performance of batteries and supercapacitors. Proficient in using electrochemical analysis techniques such as cyclic voltammetry and impedance spectroscopy. Strong background in collaborating with engineers and product designers to integrate new materials into existing systems.

EXPERIENCE

SURFACE CHEMIST

Energy Innovations Corp.

2016 - Present

- Designed and tested conductive coatings for lithium-ion batteries, improving energy efficiency by 20%.
- Utilized electrochemical techniques to evaluate coating performance under various conditions.
- Worked closely with product development teams to ensure successful implementation of new materials.
- Conducted failure analysis on battery systems to identify and resolve coating-related issues.
- Produced detailed reports on experimental findings for internal stakeholders.
- Mentored junior staff in laboratory techniques and safety protocols.

JUNIOR CHEMIST

Advanced Materials Research

2014 - 2016

- Assisted in the formulation of surface treatments for energy devices.
- Performed routine analysis and characterization of materials using XPS and TGA.
- Contributed to the development of new testing protocols for surface properties.
- Maintained laboratory equipment and ensured compliance with safety regulations.
- Participated in team meetings to discuss project progress and challenges.
- Supported documentation and reporting of experimental results.