

# John Wydallis

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My professional work has been an interesting mixture of medical/diagnostic product development, manufacturing, and analytical chemistry. These experiences have offered me training and expertise in a wide array of industry relevant skills.

## Work Experience

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### **Analytical Chemist**

CARESTREAM HEALTH

January 2020 to Present

Provided chemistry and analytical chemistry expertise for a high-volume roll-to-roll coating manufacturing facility. This work included the management of precision chemical formulations in accordance with the highest quality and regulatory guidelines. Lead analytical investigations into high-value quality issues.

### **R&D Scientist III**

ACCESS SENSOR TECHNOLOGIES

January 2016 to December 2020

Worked on development projects funded by the National Science Foundation (NSF) and United States Department of

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Agriculture (USDA) SBIR programs as well as private development contracts. Developed the On-Target water testing product line. Gained experience with every facet of product development, including technology patents, trademarks, prototyping, design revisions, in-house manufacturing development, contract manufacturing management, marketing, and online sales management.

### **Product Development Consultant**

PHASE THREE PRODUCT DEVELOPMENT

January 2013 to December 2020

Collaborated with a team that designs and builds instrumentation and disposables for biomedical and diagnostic applications. Worked with engineers to test and improve design iterations from product conception to launch. Provided design input, troubleshooting, and rapid prototyping services. Attended trade shows to strengthen business development, promote company services, and expand their customer network.

### **Graduate Research Assistant**

COLORADO STATE UNIVERSITY

January 2010 to December 2016

Earned a PhD under Professor Charles Henry. Completed a dissertation entitled Development of Electrochemical Imaging

Methods Using Micro-Electrode Arrays and Microfluidic Networks. Gained over two years of teaching experience at the undergraduate and high school levels and presented research at four national conferences. Earned a competitive two- year fellowship in the National Science Foundation (NSF) GK-12 Program.

### **Laboratory Technician**

CSU VETERINARY DIAGNOSTIC LABORATORY

January 2004 to December 2010

Performed accredited analytical diagnostic tests on animal, feed, and water samples for the Chemistry/ Toxicology division of the CSU Veterinary Diagnostic Laboratory. Wrote and updated standard operating procedures, maintained and calibrated laboratory equipment, and kept an organized results database.

## Education

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### **DOCTOR OF PHILOSOPHY in Analytical Chemistry**

COLORADO STATE UNIVERSITY

2016

### **BACHELOR OF SCIENCE in Chemistry**

COLORADO STATE UNIVERSITY

2010

## Skills

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- Documenting design specifications
- Injection molding
- Voice of customer research
- 3D printing (FDM and SLA)
- X-Ray fluorescence (XRF)
- Prototyping
- Onshape
- Laser cutting and engraving
- Microfluidics and fluidics
- Spectrophotometry (UV/Vis, AAS)
- Statistical process control
- Energy dispersive spectroscopy
- Electrochemistry
- Patent process
- Chromatography (HPLC, GC)
- Website design
- Contact profilometry
- Embossing
- MasterControl (QMS)

- Lithography
- Infrared imaging
- Regulatory experience
- Microsoft Office
- CAD software
- Trademark process
- Tooling and fixturing
- Fluorescence microscopy
- Scanning electron microscopy
- Lateral flow assays
- Paper microfluidics
- AAS, ICP-OES spectroscopy
- Colorimetry
- Optical profilometry
- Bill of materials management
- Product development
- Online sales
- Marketing
- Spectroscopy
- Laboratory Experience
- Research & Development
- Project Management
- Microsoft Excel
- Research
- Machine learning
- Agile
- Communication skills
- Research & development
- Assays
- Team management
- Project management
- Laboratory experience
- Quality management
- Continuous improvement
- Materials management
- Manufacturing
- Medical imaging
- Calibration

## Links

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[linkedin.com/in/johnwydallis](https://www.linkedin.com/in/johnwydallis)

## Certifications and Licenses

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**CPR Certification**

**First Aid Certification**