
Education

University of Maryland, College Park

Bachelor's of Science in Physical Sciences

2012 — 2016

- ▷ College Park Scholars: Science, Technology and Society
 - ▷ Specialized coursework: Computing and Data Analysis, Applied Probability and Statistics, Radiochemistry, Structure Determination Using Spectroscopic Methods, Inorganic Chemistry, Geophysics, Observational Geophysics, Atmospheric Physics and Thermodynamics, Dynamics of the Atmosphere and Ocean
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Experience

Nu-Tek Precision Optical Corporation

Engineer

2016 — present

- ▷ Developed and maintained a proprietary MATLAB toolbox for processing optical data.
- ▷ Automated administrative tasks with Python and PowerShell scripts.
- ▷ Created analytical and automation tools for manufacturing and metrology using C and Golang.
- ▷ Compiled, designed, and typeset product certifications with L^AT_EX.
- ▷ Implemented organization-wide code style standards and version control with Git.
- ▷ Created frontend web tools for monitoring orders and planning tasks.
- ▷ Tracked order progress and maintained detailed task records in Wrike (project management tool).
- ▷ Designed and optimized automated measurement programs using Zeiss CALYPSO.

The Research Foundation for SUNY

Innovation and Partnerships Intern

Summer 2014 and 2015

- ▷ Assisted in implementing the START-UP New York and Technology Accelerator Fund programs.
- ▷ Reviewed grant proposals to assess the feasibility and potential marketability of new technologies.
- ▷ Edited, compiled, and summarized legal documents for public distribution.
- ▷ Modelled the performance of a proposed venture capital fund using past financial data.

University of Maryland, College Park

Teaching Assistant

2014 — 2015

- ▷ Developed lesson plans and managed course logistics.
 - ▷ Evaluated student performance and progress through weekly reflective writing assignments.
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Technical Skills

- ▷ MATLAB, Python 3, PowerShell, Golang, C/C++, Git, Bash, ES6, L^AT_EX, REST APIs, Vim
 - ▷ FreeCAD, Autodesk Inventor, Creo Parametric/Pro Engineer, Zeiss CALYPSO, ZYGO MetroPro/Mx
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