STEFAN CLINE

San Diego, CA | 775-351-5131 | stefan.e.cline@gmail.com LinkedIn: https://www.linkedin.com/in/stefan-cline-0501a1146/ GitHub: https://github.com/StefanCline/Coding Examples

Employment History

• Solar Physics Intern, Predictive Science Inc.

Dec. 2022 - Present

- o TBD (early work has involved scripting in Python and Fortran)
- Wafer Alignment Intern, ASML Wilton, CT

Jun-Aug 2022

- o Investigated a novel technique for Wafer Alignment in DUV Photolithography Systems. Presented findings to cross-functional stakeholders to determine future feasibility.
- Calculus II Teaching Assistant, San Diego State University (SDSU)

Aug. 2021 – May 2022

- Taught breakout sessions twice a week for two sections (~60 students). Graded and proctored exams.
- Sequence Design Engineer, ASML San Diego, CA

Mar. 2018 – Mar. 2020

- Developed sequences during the company's transition phase from R&D to Industrialization of EUV Photolithography systems.
- Miliary Officer (Captain, Active Duty), United States Army

May 2013 – Feb. 2018

• Performed in leadership roles from combat and policing at the unit (~43 personnel) level to organizing and executing logistics and budget management (~250 & 1200 personnel).

Education

• M.S. Applied Mathematics (San Diego State University)

Fall 2021 – Spring 2023

(Dynamical Systems and Chaos concentration)

Advanced Ordinary
 Differential
 Continuous Chaos
 Equations (ODEs)

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Optics
 Mathematical
 Fourier Analysis
 Nonlinear Waves
 Models

• B.S. Mathematics (Indiana University)

Fall 2019 - Summer 2021

o Calculus I, II, III o Linear Algebra

• B.A. German Studies (University of Nevada, Las Vegas)

Fall 2008 – Spring 2013

Noteworthy Projects

- Thesis (working title)
 - Machine Learning Applied to Optimization of Mode Detection for Empirical Wavelet Transforms
- Finite Element Methods (FEM) applied to the Nonlinear Schrodinger Equation (NLS) on a toroidal surface
 - o Solved introductory problems analytically for setup, numerical NLS implemented on FreeFem++
- Multi-Layer Heat Diffusion through Several Media
 - o Completed exact solution and Finite Difference Scheme (FDS) numerical approximation
- ASML: Configuration Package 1 and 2
 - o Planned, wrote, and oversaw massive system level sequences with an interdisciplinary team.

Skills and Certifications

*	MATLAB	*	LaTeX	*	Python	*	VBA
*	Maple	*	Fortran	*	German Language	*	Secret Clearance (exp. Jan 2022)