

Hazem Mesilhy

Computational Lithography



About me

Passionate engineer specializing in computational lithography, focusing on EUV mask absorber and reflective multilayer modeling. 5+ years of research experience. Skilled in diverse programming languages and disciplines. Committed to pushing technological boundaries and finding innovative solutions. Proven track record of exceeding project goals. Eager to contribute to groundbreaking advancements in lithography and beyond.

Skills

- Numerical Optimization
- Optics simulation / modeling
- Machine Learning
- Linux
- Problem solving
- Teamwork

Programming

- Python
- C++
- HPC
- Java

hazem-mesilhy
 hazemiii
 Hazemiii.github.io

EXPERIENCE

July 2024	Senior OPC Engineer ERLANGEN · Germany	
2019– June 2024	Research Scientist ERLANGEN · Germany	
2017–2019	Research Assistant ERLANGEN · Germany	
June–Sept. 2015	Intern Programmer JAIPUR · India	

DEGREES

2024	Ph.D. FAU · Erlangen	
2019	Master of Science FAU · Erlangen	
2016	Bachelor FACULTY OF ENGINEERING · Cairo uni	

AREAS OF SPECIALIZATION

- Computational Lithography
- OPC (Optical Proximity Correction)
- Modeling
- Programming
- Machine Learning

AWARDS

2021	Best Student Paper Award: 2021 SPIE Photomask Technology + EUV Lithography
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PUBLICATIONS

More than 17 publications: [Google Scholar](#)

LANGUAGES

Arabic	C2	mother tongue
English	C2	
German	A2	

TALKS

- Various SPIE conferences and panels.
- 2022 ASML Technology Conference
- 2023 ASML Technology Conference

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