Nina Mamaeva

San Francisco • (415) 535-2733 • e-mail • LinkedIn • GitHub

Multi-discipline engineer with experience with III-V lasers, robotics and photonics; passionate about using data science and analytics to solve business and every-day problems. Skilled in investigating data and translating complex topics into digestible and actionable insights through storytelling and visualization.

Skills

Python • MATLAB • LabVIEW • Fimmwave • SQL • Numerical models development
Data cleaning • Exploratory data analysis • Data visualization • Machine Learning
Solid State Lasers • Fiber optic sensors and system integration
Technical writing • Project management • Cross functional team collaboration

Experience

Data Scientist in Training, General Assembly (Remote) 2022

- Completed a full-time 480-hour immersive course at General Assembly, focused on learning data analysis, machine learning, visualization techniques
- Collaborated with other students on various projects

Technical Sales Manager, DenseLight Semiconductors (San Francisco, CA - Singapore)
2021 - 2023

- Provided project guidance and technical expertise to clients in telecom, sensor, aerospace and LiDAR industries
- Built numerical models for integrated systems to ensure they meet customer project requirements
- Wrote ad-hoc and quarterly project reports to inform relevant stakeholders
- Analyzed market data for forecasting purposes
- Acted as the primary technical liaison between customers and internal engineering teams in Singapore

Sales Engineer, SmarAct (Germany - Berkeley, CA) 2015 - 2017

- Designed and developed proof-of-concept 3D manipulating systems for companies and research institutions such as Apple, Intel, Berkeley National Lab, and others
- Performed pre-delivery testing and calibration of products using proprietary software
- Programmed product demos using MATLAB for customer on-sites and trade shows
- Analyzed market data for forecasting purposes
- Partnered with internal cross-functional teams to scale technical support

Research and Teaching Assistant, Carleton University (Ottawa, Canada) 2010 - 2012

- Developed a numerical method to calculate transition properties of light in various environments, which was later used in several biosensors research projects
- Created a simulation for calculating EM modes in metal-coated fiber using MATLAB and Fimmwave
- Analyzed complex data sets extracted from the mode solver (Fimmwave) and experiments

Education

Data Science Immersive Program, General Assembly (Remote) 2023
M.A.Sc in Electrical Engineering, Carleton University (Ottawa, Canada) 2010-2013
B.Sc in Physics, University of Ottawa (Ottawa, Canada) 2006-2010