SARA G. BODDE

Multi-disciplinary Engineer
Technical Project Lead

🌐 https://sgbodde.github.io/
in /in/sgbodde
📍 California, U.S.A.

SUMMARY

Over a decade of experience in semiconductor capital equipment technology at Fortune 500 or Forbes global/multinational listed companies, from lightsource to inspection, from fundamental research to high volume manufacturing (HVM), from legacy technology to new product introduction (NPI)

- Solid logical and data-backed decision-making acumen and strategic process and negotiation skills

- Proven ability to lead cross-functionally and to collaborate globally in remote and/or hybrid working models

- Excellent in direct customer engagement and management of suppliers, vendors, and service providers, especially in the semiconductor ecosystem

- Well-traveled and adept with collaboration tools for remote work since pre-pandemic era

Skill	Experience
Project Management	4+ yrs.
Copyediting/Publications	6+ yrs.
Fundraising/Grant-writing	4+ yrs.
Data Analytics/Visualization	7+ yrs.
Technical Presentation	12+ yrs.
Research & Development	15+ yrs.

SELECTED EXPERIENCE

2021 – 2024
hybrid/>70% travel

Photo-contamination Control Engineer **KLA Corporation (Milpitas, California)**
Drove technical supplier engagement in cleanrooms in U.S.A. and Europe to new standards, improving and implementing best known methods for optics handling for ultra clean vacuum; investigated and procured particle detection instrumentation for quantitative *in situ* monitoring of particle generation and shedding during critical assembly, manufacturing, and integration processes; kicked off and advised a task force for machine learning for GC-MS peak detection; conducted rigorous inspections and audits of processes in supplier cleanrooms and machine shops, e.g. caught a purge line gas purification non-compliance that would have compromised an >120k€ optic
`JMP / Agilent MassHunter / Microsoft Visio / Microsoft Teams`

2019 – 2021
hybrid/>50% travel

Lead EUV Coating Engineer **Zygo Extreme Precision Optics (Richmond, California)**
Overhauled manufacturing and inspection operations for on-time delivery of substrata that met surface roughness and figure error and unprecedented contamination control specifications; forged collaborative relationship with the customer, and led international, cross-functional teams including consultants, researchers, and suppliers
`Python / LabVIEW / Microsoft Project / SharePoint`

2018 – 2012
10% travel

Sr. Scientist and Data Analyst **Cymer/ASML (San Diego, California)**
Developed a novel metric for forecasting optics lifetime based on transmission trends in upgraded opto-mechanical assembly and created a comparative visualization tool serving engineering, marketing, and finance stakeholders to quickly assess and visualize performance impact of engineering changes; delivered technical presentations and communications with customers and collaborators at multiple sites in U.S.A., Europe, and Asia, and conducted formal knowledge transfer and training sessions for colleagues
`SQL / Spotfire / InfluxDB / Grafana / Python / Matlab / ImageJ / JIRA / Agile / SAP / Teamcenter / Confluence / SharePoint`

SUPPLEMENTARY TRAINING

System Engineering FMEA
8D Applied Strategic Thinking
Project Management Fundamentals
Situational Leadership
Engineering Budgeting
Risk Analysis Working Globally

EDUCATION

M.S., Materials Science and Engineering **University of California, San Diego**
Specialization: Semiconductor Superlattices & Organometallics

B.S., Chemical Engineering **University of California, San Diego**
Area Focus: Electronic Materials

Scholarly publications are listed at Google Scholar.