

Zhigang Zhou

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PROFESSIONAL SUMMARY

- 15+ years of experience in semiconductor, medical device , hard disk, MEMS display panel, optical component processing and development in both R&D, pilot line and high volume manufacturing environment
- Extensive experience in wafer foundry and supplier management, new product launch and commercialization
- 10 years of experience in project management, PMP trained.

SKILLS

- Proven ability to master new skills quickly and the ability to multitask and manage multi projects
- Demonstrated ability to apply engineering knowledge and experience to projects to streamline processes, increase efficiency, reduce cost and resolve operational issues
- Working knowledge of medical device regulation and quality system, particularly design controls and risk management
- Semiconductor process, hardware component assembly, testing and packaging, NPI and mass production operation, wafer foundry and packaging CM management, IQ/OQ/PQ
- Experience in managing people
- Strong strategic thinker, excellent collaboration and communication skills and attention to details
- SPC, DOE, JMP, Agile, FMEA, Google Data Studio

WORK EXPERIENCE

Roche, Roche Sequencing Solutions, Santa Clara, California
Principal Product Engineer

7/2017-Present

- Provided leadership, guidance and strategy, and made operational decisions as well as cost/benefit analysis with key stakeholders and partners
- Built the strategy, infrastructure, processes and tools to maximize operational efficiency and support the new product initiatives and technology transfer
- Collaborated with operations & design engineering to define and complete commercial MFG, supply chain and QC/test process map and all required documentation
- Drove continuous improvement plan (CIP), design for manufacturability (DFM) projects for both quality improvement and cost reduction
- Managed relationship with internal sites and contract suppliers in close collaboration with process, quality, procurement and finance teams
- Project coordination: championed and supported engineering development group's specific needs and requirements
- Maintained documentation of customer communication, processing data, and other pertinent product information
- Developed SPC/control charts of process and test data for internal teams and high volume suppliers, which included the review of current database infrastructure and the recommendations on automation, improvement and optimization to fit the entire line
- Developed, implemented and improved quality processes and procedures, automated systems(HW and SW) and reporting systems
- Coordinated and executed BOM and documentation development in PLM databases
- Collaborated with marketing and operation teams to develop final product packaging and labeling with appropriate regulatory statements

- Led material review board(MRB) and engineering change review board

Coherent Inc., Santa Clara, California

Staff Manufacturing Engineer/Program Manager

11/2015-7/2017

- Led the introduction of new laser products and contributed to smooth running of manufacturing line
- Created BOMs, SOPs, flow diagrams and methods for new assemblies or processes
- Collected customer requirements, translated them into design and technical specifications and proposed commissioning plans
- Developed and executed strategic plan for process control, quality monitoring, defect reduction, and yield improvement
- Responsible for budgeting/cost control, personnel management, space and equipment acquisition/maintenance
- Interface subcontract suppliers to ensure product's performance, quality, cost and delivery time

Qualcomm, MEMS Technology, San Jose, California

Staff Process Engineer

3/2014- 10/2015

- Technical module lead for the development of MEMS display process and assisted process integration to full device flow for MEMS display panels
- Developed low-pressure SF6 passivation process without vacuum break to mitigate Al corrosion, which avoided having additional process chamber at partner Fab and saved millions of dollars
- Led cross-module teams to identify gate leakage issue induced on the SSEC striping tool. Proposed and implemented practical solutions to mitigate it.

Western Digital Corporation, Fremont, California

Sr. Principal/Principal Engineer

1/2008-3/2014

- Led feasibility assessments of manufacturing projects and partners for capabilities such as automation, equipment, process enhancement, and general requirement for scale-up and commercial manufacturing
- Designed and retrofitted Ecosnow tool with dual nozzle cleaning capability. Qualified and implemented dual nozzle process with a net gain of 46% cycle time reduction and saved \$1.6M/tool
- Developed surface treatment process which improved the photoresist adhesion on alumina and well-controlled the wet etch undercut to meet the design requirement
- Developed SS-S3 alumina wet etching process that is crucial for the elimination of 64 operations in route, achieving significant cycle time reduction and cost savings.
- Originated, qualified and implemented multiple chemical saving projects which reduced wet etch chemical consumption by 33~45%
- Evaluated and identified areas of improvement for throughput, yield, cost reduction, and capacity enhancement in module process and provided systematic solutions
- Collaborated with internal and external cross-functional teams to determine manufacturing requirements, identify process key parameters/ process capability to enable on-time delivery of process/toolset to production within budget.

EDUCATION

- M.S. in OE/Materials & Corrosion option, Florida Atlantic University, FL, USA,
- M.S. in Physical Chemistry, Nankai University, Tianjin, China
- B.S. in Physical Chemistry, Nankai University, Tianjin, China

Zhigang Zhou

- San Ramon, CA, USA

Contact Information

- fqh-o7i-fyo@mail.dice.com (Preferred)
- 7724801915 (Preferred)

Work History

Total Work Experience: 13 years

- **Principal Product Engineer | Roche**
Jul 01, 2017 - No End Date
- **Staff Manufacturing Engineer/Program Manager | Coherent Inc.**
Nov 01, 2015 - Jul 01, 2017
- **Staff Engineer | Qualcomm, MEMS Technology**
Mar 01, 2015 - Oct 01, 2015 | San Jose CA United States
- **Sr. Staff Engineer | Western Digital Corporation**
Jan 01, 2008 - Mar 01, 2014 | Fremont CA United States

Education

- **Masters**, No Dates Provided | Florida Atlantic University

Skills

- **coaching** | 15yrs | 2021
- **collaboration** | 15yrs | 2021
- **continuous improvement** | 15yrs | 2021

- **contract management** | 15yrs | 2021
- **cost reduction** | 15yrs | 2021
- **crm** | 15yrs | 2021
- **design of experiments** | 15yrs | 2021
- **development management** | 15yrs | 2021
- **engineering** | 15yrs | 2021
- **engineering management** | 15yrs | 2021
- **failure analysis** | 15yrs | 2021
- **lean manufacturing** | 15yrs | 2021
- **manufacturing** | 15yrs | 2021
- **manufacturing engineering** | 15yrs | 2021
- **materials science** | 15yrs | 2021
- **mechanical engineering** | 15yrs | 2021
- **operations** | 15yrs | 2021
- **chemicals** | 15yrs | 2021
- **controls** | 15yrs | 2021
- **design controls** | 15yrs | 2021
- **lean six sigma** | 15yrs | 2021
- **production** | 15yrs | 2021
- **cost estimation** | 12yrs | 2021
- **cross-functional team** | 12yrs | 2021
- **business requirements** | 11yrs | 2021
- **audit** | 10yrs | 2021
- **automation** | 10yrs | 2021
- **budget management** | 10yrs | 2021
- **business analysis** | 10yrs | 2021
- **cmos** | 10yrs | 2021
- **design engineering** | 10yrs | 2021
- **leadership** | 10yrs | 2021
- **product engineering** | 10yrs | 2021
- **qa** | 10yrs | 2021
- **agile** | 10yrs | 2021
- **budget** | 10yrs | 2021
- **business partnership** | 10yrs | 2021
- **capital expenditures** | 10yrs | 2021
- **design for manufacturability** | 10yrs | 2021
- **dfm** | 10yrs | 2021
- **mrb** | 10yrs | 2021
- **gd&t** | 8yrs | 2021
- **product packaging** | 6yrs | 2021
- **project management** | 2021
- **cross-functional** | 10yrs | 2020
- **data collection** | 15yrs | 2016
- **documentation** | 15yrs | 2016
- **process engineering** | 15yrs | 2016

- **spc** | 15yrs | 2016
- **amazon s3** | 6yrs | 2014
- **iso 13485** | 7yrs | 0
- **design**
- **agile project management**
- **lean**
- **management**
- **packaging**
- **s3**
- **six sigma**

Work Preferences

- Likely to Switch: Most Likely
- Willing to Relocate: No
- Travel Preference: Up to 25%
- Preferred Location:
 - Fremont, CA, USA
 - Livermore, CA, USA
- Work Authorization:
 - US
- Work Documents:
 - US Citizenship
- Security Clearance: No
- Third Party: Yes
- Employment Type:
 - Full-time

Profile Sources

- LinkedIn: <http://www.linkedin.com/in/eric-zhou-8b209345>
- Dice:
<https://www.dice.com/employer/talent/profile/d94a73ff02b558be87b18483aceb44aed6db75c9>