

# Victor Boyd

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## SUMMARY

Accomplished Principal Industrial Engineer with over 10 years of experience in microelectronics and manufacturing processes. Demonstrated expertise in improving production efficiency and implementing innovative engineering solutions. Proven leadership in guiding cross-functional teams through complex technical challenges, fostering collaboration to enhance product development. Committed to leveraging engineering principles to achieve operational excellence and drive business growth. Known for acting as a Subject Matter Expert in microelectronics packaging, facilitating the adoption of new manufacturing technologies, and optimizing workflows, all focused on delivering substantial improvements in quality and performance.

## EXPERIENCE

### Principal Industrial Engineer

January 2021 - Present

Tech Innovators Inc.

*Cedar Rapids, IA*

Leading efforts in technical support for the microelectronics packaging team, enhancing product flow efficiencies and manufacturing processes. Engaging deeply with interdepartmental projects to fulfill expansive goals in manufacturing operations.

- Cultivated partnerships across departments to refine manufacturing strategies and boost productivity.
- Guided introduction efforts for new products with thorough Design for Manufacturing analyses, ensuring alignment with operational capabilities.
- Data-driven assessment of production trends enabled identification of impactful process enhancements, fostering significant efficiency gains.
- Worked alongside design engineers to improve manufacturability by addressing technical hurdles swiftly and effectively.
- Conducted in-depth capacity and capability analysis that established clear benchmarks, enhancing overall workflow management.
- Served as a Subject Matter Expert in microelectronics, offering critical insights into relevant processes and materials.

### Senior Industrial Engineer

June 2016 - December 2020

Electronics Solutions Corp.

*Iowa City, IA*

Oversaw key engineering projects with an emphasis on optimizing workflows within microelectronics, focusing heavily on resource allocation and performance metrics.

- Implemented comprehensive methodologies aimed at introducing cutting-edge manufacturing technologies, driving significant increases in output.
- Pioneered initiatives rooted in Lean and Six Sigma practices that led to reduced costs and streamlined inventory processes.
- Offered training programs for personnel to ensure proficiency in advanced manufacturing methodologies and system tools.
- Engaged diverse teams in continuous improvement projects which reinforced alignment between engineering outputs and corporate predicaments.
- Executed evaluations of operational procedures that resulted in measurable reductions in lead time and enhanced service levels.

### Industrial Engineer

March 2012 - May 2016

Future Tech Manufacturing

*Cedar Rapids, IA*

Supported production logistics in microelectronics through targeted analyses and strategic implementations of efficient manufacturing solutions.

- Streamlined plant operations by assessing workflow patterns and innovating practical engineering solutions.
- Contributed substantially to equipment specifications and procurement processes, aligning machinery with functional demands.
- Developed process documentation and educational resources, empowering manpower with crucial operational knowledge.
- Collaborated on cross-departmental design standards aimed to fortify manufacturing quality measures.
- Applied sound engineering temperance to resolve encountered operational roadblocks, thereby improving product integrity.
- Maintained ongoing adherence to industry advancements which informed competitive decisions within production functions.

## LEADERSHIP & AWARDS

- Recognized Employee of the Month for excellence in operational improvements.
- Awarded company grant for innovation in microelectronics technology enhancement.

## EDUCATION

### Bachelor's Degree in Industrial Engineering

2012

University of Iowa GPA: 3.8

*Iowa City, IA*

**Coursework:** Thermodynamics, Materials Science, Manufacturing Systems, Quality Control

CERTIFICATIONS

- Lean Six Sigma Green Belt 📅 2018
- Certified Quality Engineer (CQE) 📅 2019

TECHNICAL SKILLS

- **Manufacturing Technologies:** Robotics, CAD, Simulation Software
- **Statistical Analysis Tools:** Minitab, MATLAB, Python
- **Process Improvement Techniques:** Six Sigma, Lean Principles, Kaizen
- **Quality Management Systems:** ISO 9001, SPC, TQM
- **Project Management Software:** Microsoft Project, Trello, JIRA
- **Communication Platforms:** Slack, Microsoft Teams, Zoom
- **Manufacturing Equipment:** Pick and Place Machines, Soldering Stations, CNC Machines
- **Data Visualization Tools:** Tableau, Power BI, Google Analytics
- **ERP Systems:** SAP ERP, Oracle NetSuite, Microsoft Dynamics
- **Prototyping Tools:** SolidWorks, Autodesk Inventor, Pro/ENGINEER

SKILLS

- |                                  |                                  |                            |                                 |
|----------------------------------|----------------------------------|----------------------------|---------------------------------|
| • Microelectronics Manufacturing | • Project Management             | • Capacities Assessment    | • Stakeholder Engagement        |
| • Process Improvement            | • Cross-Functional Collaboration | • Material Optimization    | • Workflow Innovations          |
| • Data Analysis                  | • Technical Leadership           | • Equipment Specifications | • Product Development           |
| • Lean Manufacturing             | • Manufacturing Operations       | • Training Development     | • Industry Standards Navigation |

PROFESSIONAL AFFILIATIONS

- Member of the Institute of Industrial Engineers.
- Active participant in local engineering mentorship programs.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

**Work Status** : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST