

# JOHNSON LE

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## SUMMARY

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Versatile engineer with experience in robotics and full-stack development, skilled in designing automated systems from concept to deployment. Passionate about continuous learning and driven to deliver innovative solutions while consistently expanding technical expertise.

## SKILLS

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- Python, React
- HTML, CSS, JavaScript
- PLC and HMI Programming
- Automation Integration
- Robotics
- Full-Stack Development

## EXPERIENCE

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### Manufacturing Software Engineer

**Aug 2021 – Present**

IPS Group, Inc

*San Diego, CA*

- Collaborate with cross-functional teams to deploy automated solutions, increasing manufacturing speed by up to **25%** and reducing labor costs by up to **50%** within targeted operations.
- Develop and implement testing equipment to improve the production process, resulting in a **30%** reduction in manufacturing defects and an increase in overall product quality.
- Build standardized frameworks, cutting project lead times and simplifying future maintenance.
- Create and manage a Python server with SQL integration and React front-end to process and visualize machine data, improving transparency and streamlining decision-making.
- Design user-friendly interfaces with real-time system status and adjustable controls, boosting technician efficiency by **20%**.
- Troubleshoot and resolve software and hardware issues in manufacturing systems, minimizing downtime and improving operational efficiency.

### PCB Test Engineer

**Dec 2020 – Aug 2021**

IPS Group, Inc

*San Diego, CA*

- Led a dedicated team of three technicians to diagnose and refurbish printed circuit boards(PCBs), improving turnaround time and ensuring high-quality standards.
- Streamlined troubleshooting and repair process for PCBs, reducing turnaround time by **30%**.
- Developed diagnostic tool with a built-in interface and visual indicators to simplify troubleshooting.
- Promoted to an R&D-focused role within the company, leveraging previous experience in developing tools for testing and repair to contribute innovations across manufacturing processes.

## EDUCATION

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### Bachelor of Science in Computer Engineering

**Spring 2019**

University of California Santa Cruz

*Santa Cruz, CA*

- Concentration in Robotics and Control