JOHNSON LE

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## SUMMARY

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

• Python, React • Automation Integration

• HTML, CSS, JavaScript • Robotics

• PLC and HMI Programming • Full-Stack Development

## EXPERIENCE

#### 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

#### Bachelor of Science in Computer Engineering Spring 2019

### University of California Santa Cruz *Santa Cruz, CA*

* Concentration in Robotics and Control