Olivia Grant

Controls Engineer

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SUMMARY

Controls Engineer with 6 years in plant and integrator roles, programming Rockwell and Siemens PLCs for machining, assembly and test lines. Designs HMI and SCADA screens, integrates drives and Modbus devices, and reads electrical schematics quickly during troubleshooting on the floor. Uses Python and Excel to turn downtime data into fixes.

SKILLS

PLC Programming • Studio 5000 • Siemens • HMI • SCADA • Modbus • Electrical Schematics • AutoCAD
Python • Troubleshooting

EXPERIENCE

Controls Engineer 05/2022 - Present

Hoosier Precision Components Columbus, IN

Tier 1 supplier machining engine and driveline parts on 14 lines.

- Own PLC programming and HMI changes for **14** machining and assembly lines running 3 shifts.
- Reduced unplanned downtime by 18% in 2025 by rewriting fault handling and alarm logic on 5 bottleneck cells.
- Integrate Modbus power meters and gauging stations into the plant SCADA, adding 300+ tags for live OEE.
- Coordinate with maintenance and quality on repeat stoppages, and train 12 technicians on updated electrical schematics.

Associate Controls Engineer 06/2020 - 04/2022

Southern Indiana Automation Evansville, IN

Integrator serving food, plastics and automotive plants.

- Programmed Studio 5000 and TIA Portal logic for 9 new machines across 4 customer plants.
- Drew control panel layouts in AutoCAD and completed factory acceptance documentation for every project.
- Commissioned equipment on site, closing punch lists within 2 weeks of startup.
- Wrote functional specs and I/O lists for 9 machines, signed off by each customer before programming began.

Controls Engineering Co-op 01/2019 - 08/2019

Wabash Valley Drivetrain Lafayette, IN

Gear and axle plant; 8-month co-op during the engineering degree.

- Added 40 alarm messages to HMI screens on 3 gear-cutting cells to speed fault diagnosis.
- Traced and redrew 60 outdated electrical schematics after panel walkdowns.
- Logged downtime by cause for 6 weeks, giving the controls lead the data behind 2 logic fixes.

EDUCATION

Bachelor of Science 05/2020

Purdue University West Lafayette, IN

Electrical Engineering