## **JOHNNY TO**

Worcester, MA | (508) 373-3116 | jto@amplivum.com | https://jto.dev/

#### **OBJECTIVE STATEMENT**

Seeking to transition from an Associate Engineer into an Automation Engineer role. Eager to leverage a Computer Science background, C#/.NET development experience, and hands-on hardware expertise in laser manufacturing to enhance automation processes, improve production efficiency, and deliver innovative solutions in laser manufacturing.

# **SKILLS & TECHNICAL PROFICIENCES**

- Version Control (Git)
- Visual Studio IDE
- C#
- .NET Framework

- Motion Control
- Sensor Integration
- Basic PLC Knowledge
- Data Acquisition
- Laser Diodes
- Optics/Photonics
- Electrical Lab Equipment
- Test Instrumentation

## RELEVANT EXPERIENCE

#### **Associate Engineer**

IPG Photonics (Oxford, MA)

#### June 2021 - Present

- Developed C#/.NET console application to automate version backups and rollbacks for production stations, enabling quick reverts to previous builds and reducing downtime.
- Collaborate with Automation Engineers to enhance assembly station efficiency by integrating new software features and troubleshooting motion control issues.
- Participate in R&D projects focused on high-precision fiber laser components, assisting with calibrations, system conversions, and data acquisition for experiments.
- Troubleshoot complex electro-mechanical assembly stations, diagnosing hardware failures and implementing corrective actions to minimize production disruptions.
- Led the upgrade of component assembly systems, improving throughput and system reliability while reducing total project duration by four months.

#### **Maintenance Technician**

July 2020 - June 2021

IPG Photonics (Oxford, MA)

- Performed calibrations, inspections, and component testing on critical production equipment, ensuring high up-time, and compliance with quality standards.
- Assisted engineers with temporary assignments requiring both mechanical and software troubleshooting, gaining a broad perspective of the company's automation needs.
- Maintained detailed documentation of maintenance activities, improving knowledge transfer and streamlining team communication.

# **Technical Assembler**

June 2020 - June 2020

IPG Photonics (Oxford, MA)

 Assembled R&D components for a new product line, collaborating with engineers to refine production and assembly techniques during early development stages.

# **EDUCATION**

Worcester State University

2019