

Luke Stephenson

Education

Graduated August 2013	Wayne State University Economics BA	Detroit, MI
Graduated March 2022	Data Analytics Boot Camp MSU Affiliated	Virtual Certificate

Experience

July 15, 2013-March 30, 2018	Comau LLC. - Software Dev. / Robotics	Royal Oak ,MI
April 9, 2018-November 2, 2018	J.R. Automation - Controls Engineer	Holland, MI
November 5, 2018-October 2019	Altron Automation - Controls Engineer	Hudsonville, MI
January 6, 2020-September 24, 2021	Commercial Tool Group - Controls Engineer	Comstock Park, MI
October 25, 2021 - April 1, 2022	Superior Concepts Inc.	Grand Haven, MI
April 4, 2022 - June 26, 2022	320 Automation LLC	Kentwood, MI
June 27, 2022 - Present	Fly Robotics USA	Fenton, MI

Experiences:

- Robotics
 - Proprietary PTWA technology program development for Ford through Comau.
 - MIG Weld, Drill, Rout, MH, Clip Install, Screwdriver, Waterjet, Piston Stuffing applications.
 - Safety integration including DCs and SafeMove via both CIP safety and Profisafe.
 - Inter-platform standardization and translation to meet multiple customer standards with minimal overhead. (Eg. ABB->Fanuc or Comau->ABB).
- PLC Programming
 - Size and feature selection based on quoted project features and budget.
 - Out-of-the-box to production commissioning, programming, and debug.
 - Review and refactor existing systems to optimize for customer requirements.
 - Integration of a variety of safety systems including both CIP safety processors and external safety systems such as Banner safety controllers.
 - Integration of various external devices for non-safety means, including servo controllers, vision systems, and thermocouples.
 - Robotics Integration, both safe and non-safe, both Ethernet and discrete IO.
- HMI Programming
 - Full feature HMI development from out-of-the box.
 - Full feature and Feature re-integration for existing HMI systems.
 - Created point-of-use documents to allow easy integration of above tools into any customer standard.
- Standards and Documentation
 - Standardized communication between equipment to allow AOI/prebuilt robot modules for rapid program development.

- Ease-of-use HMI programming with 1-button functionality using standardized buttons w/ AOI's.
- Program optimization for both commissioning and service environments.
- Standard documentation layout built from modules based on customer purchased features.

Certifications

- ABB SafeMove 1 - 2015
- Fanuc PMC - 2019
- Siemens TIA portal - 2021
- MSU Data Analytics Certification - 2022

Skills

- Robotics
 - Comau - Expert 9 Years
 - Fanuc - Expert 7 Years
 - ABB - Expert 8 Years
- PLCs
 - Allen Bradley - Expert 5 Years
 - Siemens - Intermediate 2 Years
 - Omron - Beginner 2 Years
- HMIs
 - Panelview - Expert 5 Years
 - Simatic - Intermediate 2 Years
 - Maple - Intermediate 3 Years
 - Schneider Electric - Intermediate 3 Years
- Vision
 - Keyence IV Series Cameras - Intermediate 3 Years
 - Sherlock Image Processing - Intermediate 1 Year
 - Fanuc Integrated Vision - Intermediate 1.5 Years
 - Comau Recognisense - Beginner 1 Year
- Computer Programming
 - Machine Learning w/ Keras Tensorflow in Python - Beginner 6 months
 - Pathing algorithms (A* and similar) - Beginner 2 years
 - Data Structures (Databases, Heaps, Data Trees) - Intermediate 7 Years
- Office Skills
 - Microsoft Office Suite - Expert 15 Years

As I always give my references a heads up before handing out their information out of professional courtesy, references will only be provided upon request.