EDUCATION:

Bachelor of **Mechanical Engineering**, Minor in **Metallurgy**  May 2019

Trine University, Angola, IN

WORK EXPERIENCE:

**Automation/Controls Engineer** (3+ years) October 2019-Present

Cutting Edge Machine and Tool INC., New Paris, IN

* Integrated Do-More **PLC’s** with a colleague in over 30 different CNCs that communicated with **Ethernet/IP** forMachine Monitoring.
  + Read **electrical schematics** for various CNC machines in order to know what signals to use.
* Programmed a custom fixture that fully assembles hydraulic cylinders with a Do-More **PLC** and two C-More **HMIs**.
  + The fixture included two Sure Servo motors with lead screws, an automatic torque gun and an Oriental servo motor.
  + Designed the electrical control panel for the components.
* Fully programmed an in-house index assembly table that pressed in insert into a hydraulic fitting.
  + Included a **ClearPath servo motor** and over 80 inputs/outputs.
  + Tested the final assembly for correct airflow and sorted parts accordingly
  + Designed and made the electrical control panel.
* Programmed an Air logic fixture that presses three parts together with an air cylinder.
* Programmed a hydraulic cylinder mobile testing unit with a **PLC** and **HMI**.
  + Added the ability to monitor amp draw, temperature of the fluid and operating for a certain number of cycles.
* Programmed and maintained a bushing press assembly fixture using a **MicroLogix PLC**.
* Integrated a bar loader with a multi spindle machine by programing a **CLICK PLC**.
* Integrated two OB7 7 axis **Cobots** with several CNCs to unload parts straight off of the CNC and into a basket.
  + Programmed the Cobot, CNC, and PLC to be able to communicate together in order for a complete hands off process.
* Programmed a Janome Scara **Robot** with a colleague that unloaded a part off of a machine, then washed, dried, measured and placed it into a bin.

**Electrical Engineer**  June/2017-August/2017

MasterBrand Cabinets, Goshen, IN and June/2018-August/2018

* Implemented a new conveyor operation, involving changing **RSLogix 5000 Allen Bradley** PLC coding, which allowed operators to not use manual labor and reduce downtime.
* Programmed a **Schneider PLC** and HMI that checked the stain color automatically.

Alex Wiederman

Email:[amwiederman15@gmail.com](mailto:amwiederman15@gmail.com) Phone:574-238-7455