Liam Mulcahy

mulcahla@mail.uc.edu | M: (513) 497-3997 5752 Franklin trail, Liberty Township OH, 45011

EDUCATION

University of Cincinnati, Cincinnati, OH Bachelor of Science, Electrical Engineering, expected May 2021

WORK EXPERIENCE

Electrical Engineer Co-op

7901 Innovation way, Mason OH

- produced cost estimates the cost of electrical devices, third-party control devices, electrical layout drawings for use by other estimating teams (installation), and estimates of electrical engineering and software engineering for the implementation of the proposed project..
- Contributed to 500 million worth of sold projects in 2019.
- Design and engineer VFD and PLC control panels using Intelligrated's own AutoCAD Electrical tools (ICAD)

PROJECTS

CNC Network Switch:

- Converted program implementation from manual controller to CAM software package.
- Selection from 8 CNC machines via RS-232.
- Increased production speed with CAM generated high efficiency tool paths.
- Tightened average tolerances from \pm .020" to \pm .003"
- Increased program storage size from 45 KB to 3 TB.

Mock Water Treatment Plant HMI and Control System:

- High performance HMI created in MATLAB to monitor water treatment plant systems.
- Monitors status and history of pump activity, water in/out, tank levels, alarms.
- Control systems designed in MATLAB to control water pump and correct for low/high water levels in tanks.

TECHNICAL EXPERTISE

Languages: Assembly, Python, C++, MATLAB, LATEX. Applications: AutoCAD, Microsoft Office Suite, NI Multisim, VMWare, Xilinx ISE design suite for Verilog HDL, Mastercam, Mazak Mazatrol.

Intelligrated May 2018 - Present

GPA: /4.00