Kurtis Parsons

Toledo, OH • (419) 481-4329 • kuparsons24@gmail.com

Engineer

Strong academic background in electrical engineering with significant hands-on experience gained through co-ops with leading engineering firms. Excellent project coordination and communication skills. Adept at interpreting highly complex information and transforming it into appropriate solutions. Knowledgeable in a broad range of automated controls, system integration and programming. Outgoing team-player who maintains a positive attitude and builds strong customer relationships to ensure successful completion of projects.

COMPETENCIES

- Project Coordination & Management
- AutoCAD
- MS Office
- Electrical & Control Systems
- Sherlock Image Inspection
- SKM (Arc flash modeling)

- Human Machine Interface (HMI) Programming
- Yaskawa Robot Programming
- Computer Hardware
- C++/C/C# Programming
- ARM Assembly

- PLC (Allen Bradley & Siemens)
- Automated Controls
- Relationship Building
- Business Development
- Communication Skills
- Customer Service
- Embedded Systems

SELECT ACHIEVEMENTS

- ***Earned Regents Scholarship*** at University of Toledo based on academic excellence.

EDUCATION & CERTIFICATIONS

Bachelor of Science, Electrical Engineering, The University of Toledo, Fall 2019
Certification, DX200 Functional Safety Unit, Yaskawa
Certification, DX200 Basic Programming with Material Handling, Yaskawa

PROFESSIONAL EXPERIENCE

ARCADIS   1/2020 – Present
Electrical Engineer
Arcadis is a global design and consultancy company providing electrical, infrastructure, civil, and mechanical engineering for natural and built assets.

- Provided engineering support for senior engineers
- Created electrical drawing packages in AutoCAD
- Created one-line diagrams in SKM and ETAP for arc flash analysis
- Assisted in the completion and design of multidisciplinary projects

NYSUS SOLUTIONS   2/2018 – 1/2020
Electrical Engineer Co-Op
Nysus is a leading provider of manufacturing execution and process automation in the automotive industry.
- Designed, built, tested and troubleshot end-of-line testing equipment for automotive wiring harnesses and bumper components, such as fog lamps and short-range radars
- Designed, assembled, programmed pick-to-light systems using Allen Bradley (AB) PLC with RSLogix
- Developed and implemented vision inspection systems
- Programmed Yaskawa robots and constructed cell caging and safety features
- Trained and educated customers on PC system integration and trained line workers on using updates post-implementation
- Facilitated and coordinated development of automation solutions for projects; collaborated, interviewed and established project scope, expectations and timelines with customers, partnering with senior engineers and other business units for successful implementation
- Provided on-site and remote technical support to troubleshoot customer issues

LEANTRAK   5/2017 – 8/2017
Electrical Engineer Co-Op
LeanTrak provides electrical, civil and mechanical engineering services to the energy and manufacturing industries with a focus on creating sustainable solutions.
- Created detailed electrical drawings in AutoCAD
- Designed cable tray and conduit layouts
- Assisted in preliminary designs for instrumentation solutions at customer sites
- Performed instrumentation and control testing for systems in the oil and gas industry

KAP CONSULTING, LLC   5/2016 – 8/2016
Electrical Engineering Co-Op
KAP provides automation integration services using advanced knowledge of motion vision and motion control.
- Programmed AB PLCs using ladder logic
- Resolved red lines for electrical prints in AutoCAD Electrical 2016
- Interpreted requests and built electrical control panels ensuring compliance with schematics
- Designed and programmed C-More HMIs
- Analyzed and interpreted electrical prints and electrical designs

Special Interests
Cars
- Rebuilt Motor in my Nissan 350Z among other various repairs.
- Cars have been an enjoyable way to learn mechanical systems as well as various electrical systems in the automotive world.

Embedded Programming
- Completed several personal Arduino projects in C++ with the use of built in libraries and custom objects.
- Projects have included; Stacking game on addressable LED matrix using serial communication over USB for human interfacing input, Digital Compass using a three axis magnetometer and OLED display both talking over I2C to the master controller, OBD2 scanning device that reads several ECU PIDs using a CAN BUS to serial interface. The OBD2 device broadcasts a BLE (Bluetooth low energy) custom service to a cell phone for display of the captured PIDs.
- Completed several personal micro controller projects on the TI ARM platform using KEIL and Code Composer Studio.
- Projects have included; Four-way traffic light using 3 LEDs per side and one push to walk button per corner. The micro controller was programmed in C using direct register access to read and write to GPIO pins.