

Michael T. Arnold, Electrical Power Engineer

AREAS OF EXPERTISE:

- Substation Design
- Protection & Control Systems
- SCADA
- Testing & Commissioning
- Project Management
- Electrical Construction

EDUCATION:

- B.S., Electrical Engineering Technologies, 2017
- B.S., Mechanical Engineering Technologies, 2017

EXPERIENCE:

- Controls System Design
- SCADA
- Substation Design
- Robotics Technician
- Preventative Maintenance Coordinator

SPECIAL TRAINING:

- Schweitzer Relays
- 3M Terminations
- OSHA 10
- NERC Compliance
- ABB Robot Programming
- Allen Bradley RSLogix 500 & 5000
- Mitsubishi Injection Molding Machine
- Phoenix Contact Safety Bridge Technology
- Balluff IO modules and networking
- Machining and Welding



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Michael T. Arnold is a graduate from the University of Toledo with two bachelor degrees in Electrical Engineering Technologies and Mechanical Engineering Technologies. With five years of professional experience, Mr. Arnold has experienced a wide range of hands on knowledge in multiple disciplines of engineering that include electrical power, programming, project management & coordination, robotics, electrical construction, and plastic injection molding.

With Power Engineering not only being a career, it is his true passion. In his three years with Encompass, Mr. Arnold has experienced a multitude of job opportunities which include; substation designer, SCADA designer, project manager, testing & commissioning leader, and electrical construction. While enduring multiple job duties in his tenure at Encompass, Mr. Arnold has completed the design of five substations, a municipality's SCADA system, written custom logic for relays at solar interconnection points, troubleshot faulty power equipment, and assisted with building, engineering, and commissioning eight battery storage facilities; which includes the worlds largest in Parrish, Florida. During that time, he has developed an understanding of engineering standards with NERC, FERC, ANSI, IEEE, NEC, NESC, and NETA.

While Mr. Arnold's focus is in power, he has had the opportunity to experience industrial engineering. As a Robotics Technician, he programmed robots in the C language while integrating PLC logic from an injection molding machine (IMM) for coordination. With safety a top priority, it was critical that the robots properly communicated with the IMM and all emergency stops were properly inserted into the PLC logic.

Mr. Arnold has been employed in large corporations, industrial settings, construction settings, and the consulting profession. While holding an array of job titles, that include, Protection and Controls Scheduler for AEP Ohio in the Columbus region, Robotics Technician, and Electrical Power Engineer, Mr. Arnold has acquired skills and knowledge to allow him to excel in learning all facets of the engineering profession.

Currently, Mr. Arnold is studying to become a Professional Engineer and will continue to learn the expanding field of engineering.

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