

Joseph McLeod

Electrical Engineer (EIT Certified)

Experienced Electrical Engineer with 5+ years in workforce allocation and electric layout optimization, resulting in 10% increased workflows and 18% increased efficiency. Seeking to leverage project management skills and experience towards a leadership role at Estavez Parks.

Experience

2013-02 - present	Electrical Engineer <i>Bystronic</i> <ul style="list-style-type: none">Planned, designed, and developed tools, engines, and electrical equipment - resulting in 18% increase in efficiency.Met with clients to oversee installation, operation, and maintenance of equipment for all local plants.Planned workforce use, space requirements, and equipment layouts to optimize workflows. 10% increased workflow in year one.Established and reinforced maintenance and safety procedures.Worked with planning and design teams to drive product development and review tooling specifications.Developed CAN and LIN drivers and communication protocols.
2009-01 - 2012-12	Assistant MPE Engineer <i>Michigan Parks</i> <ul style="list-style-type: none">Performed condition assessments of electric systems service of Michigan Parks' physical assets, including plumbing, HVAC, electrical and other systems, in accordance with inspection protocols, state and local regulations.Conducted field inspections to identify defects at system and component level. Recommend potential interventions to improve overall asset condition and meet benchmark performance requirements. Prepared detailed reports to support condition assessment findings and certify inspection results against applicable building codes.Collected and captured additional asset information to build and improve upon the accuracy of Parks' asset inventories.Maintained data for use with Parks' asset management software systems.Analyzed inspection data to identify trends and monitor the effectiveness of Michigan Parks' efforts to proactively maintain its assets in a steady state of good repair.Engaged in document research, investigations, studies, examinations and testing as they related to the functions or activities of the Capital Needs Assessment Team.

Education

2006-09 - 2008-06	University of Michigan, MEng. in Electrical Engineering <ul style="list-style-type: none">Graduated Magna Cum Laude
2002-09 - 2006-06	University of Michigan, B.E. in Electrical Engineering

Conferences

2018-04	EPECS - 5th International Conference on Electric Power and Energy Conversion Systems
2016-07	The American Society of Electrical Engineers
2014-11	Product Life-Cycle Management - Stanford University

Personal Info

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Skills

3D CAD MODELING SOFTWARE	●●●●●●●● Expert
PLC	●●●●●●●● Advanced
LINUX	●●●●●●●● Advanced
C++	●●●●●●●● Advanced
CIRCUIT DEVELOPMENT	●●●●●●●● Advanced
REVERSE ENGINEERING	●●●●●●●● Intermediate
COMMUNICATION SKILLS	●●●●●●●● Intermediate

Languages

SPANISH	●●●●●●●● Intermediate
GERMAN	●●●●●●●● Basic