# Electrical Engineer – Energy, Automation & Robotics

45000 Orléans · 5 à 10 ans d'expérience · Réf. 2604301159

## Ma recherche

Contrat recherché : Tout contrat
Zone : Centre-Val de Loire
Mobilité : sur toute la région
Rémunération : a étudier
Secteur : Batiment

## Formations

12/2018 — Bac +5 — University of Michigan
MASTERS IN ELECTRICAL ENGINEERING
12/2017 — Bac +5 — University of Michigan
BSE IN ELECTRICAL ENGINEERING

## Expériences professionnelles

02/2022 - 04/2023 — Automation Engineer

Designed, implemented, and commissioned an automated cutting disk system on a tube production line. Service control cabinets, PLC installation, and programming for cutoff routine. Performed fine parameter tuning and calibration on servo motor drives (Lenze drive). Troubleshot and serviced metal bending machine and other components in the factory.

03/2021 - 05/2021 — Solar System Engineer

Design, installation, and commissioning of residential and commercial PV solar systems (On-Grid/Off-Grid/ Hybrid). Development and implementation of a custom EMS for managing on-grid inverters, PCS, synchronous gensets, load management, ATS, HMIs for remote monitoring and control.

05/2019 - 03/2021 — Senior Electrical Engineer

Responsible for electrical maintenance and troubleshooting across the site: main control room, crushers, production machines, dump trucks, articulated haulers, excavators, and drills. Diagnosed and resolved complex electrical faults to ensure operational continuity and minimize downtime.

01/2018 - 01/2019 — Robotics Engineer

Developed Python drivers for omnidirectional wheel modules using the CANopen DS-301 protocol. Created ROS and Gazebo packages for control, autonomous navigation, and simulation. Performed real-time tracking and kinematic analysis using OptiTrack and force platforms. Migrated and updated the lab's website (HTML, CSS).

05/2014 - 07/2014 — Research Assistant

Assisted in developing a Computer-Vision Based Sign Language Recognition System. Modified Leap Motion sensors SDK to recognize additional hand gestures (C# & Unity).

05/2014 - 07/2014 — Laboratory Technician R&D

Test products and components for development, life testing, reliability and regulatory compliance to required industry standards. Set up an accelerated lifetime test on three ignition modules using Allen Bradley PLC.

05/2014 - 07/2014 — Research Assistant

Detected occlusions on a camera lens: performed spectral analysis on RGB data for feature extraction and training classifier models.

05/2013 - 08/2013 — Technical Support – Renewables Energy

Developed a web frame tool to monitor plant equipment; the tool queries sensor data from the OSIsoft PI system database to calculate and graph performance parameters in real-time. Worked with OSIsoft tools to manage and analyze data. Participated in field inspections and routine maintenance.

## Langues

English (maternelle), French (courant), Arabic (maternelle)

## Atouts

MATLAB, Simulink, Python, ROS, CANopen, Pspice, Assembly Language, OSIsoft Data Management system, C, C++, VB.NET, Java, JavaScript, HTML, CSS, Unity, Ladder Logic

## Loisirs

Critical Thinking, Detail Oriented, Time management, Self-motivation, Adaptivity

Fiche anonyme — l'identité et les coordonnées du candidat sont communiquées aux recruteurs qui en font la demande sur pmebtp.com.