

Lalmi Ahmed

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Date of Birth: 18/07/1998

ELECTRICAL ENGINEER

About Me:

I am Lalmi Ahmed a Power engineer and self thought developer, I am a talented, ambitious and hardworking individual, with broad skills and experience in electronics and programming. I worked in various projects and I was always be able to handle multiple tasks on a daily basis. Furthermore, I am a dependable person who is great at time management and at working well under pressure.

WORK EXPERIENCE

Freelancer -- (Feb,2021- Till now) :

- Remote control system using Arduino 2560 and GSM shield:

Control 60 pound door -wild animal cage door- solenoid using Arduino Mega and GSM shield 'sim5320a'.
(the same design was applied to another project with pump water as a load)

- Monitoring Vessel Sailing Data using NodeMCU and SBC:

Gathering sensors data using ESP8622 and share them via UDP and MQTT protocols with a raspberry pi runs signalK server, influx database and Grafana dashboards.

- OCR using ESP32 Camera:

Installing the esp32 camera module facing to the pressure panel, to capture and send images over the LAN, A python script on the user machine will receive and analyze the live images and extract the numeric data from them using Pytesseract library, then the data can be sent to a remote server.

- PCB Design using KiCAD:

Design a PCB fork of coldpower low power USB devices from a standard 9-volt battery.

- Python AIS Decoder: using Python (Pyais) and MySQL (sql.connector):

Script to receive AIS NMEA message stream on a remote server, decode the messages using 'Pyais' lib and store them to MySQL database using 'mysql-connector-python lib'.

- Online assistance for Microcontrollers programming (Arduino, ESP and raspberry pi).

Personal Projects:

- Video surveillance system (bachelor final year project):

Security camera to detect motion based on Raspberry Pi 3 and alter notification over GSM 'sim800l'.

Internships:

- *Internship at ANABIB industry: (during June 2021):*

Practical experience on the industrial power circuits installation for different motors and loads.

EDUCATION

Baccalaureate Exam(Excellent degree)

Graduated – Jul 2017

Bachelor of Electrical and Electronic Engineering

Institute of Electrical And Electronic Engineering (M'Hamed BOUGARA University Boumerdes)

Graduated – Dec 2020

Master of Power Engineering

Institute of Electrical And Electronic Engineering (M'Hamed BOUGARA University Boumerdes)

Expected Graduation Date – Jun 2022

PROFESSIONAL SKILLS

- Industrial Networks, and wiring.
- Electrical Machines: Transformers, Motors and Generators (synchronous, induction and DC).
- Power Electronics and Programmable devices (PLCs).
- Digital Electronics and HDLs (VHDL, Verilog) and FPGA.
- Microcontrollers and Development boards: Atmel Arduino , ESP's, Raspberry Pi, FPGA...
- Programming: C/C++, Python, Javascript, Bash and MySQL
- Circuit Design and Simulation: Matlab/Octave, simulink, EasyEDA, PCB Desing with Kicad.
- Office Skills: MS office, MS windows/ Power shell, GNU/Linux server.

EVENTS

Semens IOT – Wameedh Electronic Club Automate35

Event that covers semenens 2020 IOT board, node-red and linux CLI

Radio Transmitter - Amateurs Radio Algeriens

Implementing and practicing with receiver and transmitter circuits

Binary exploatiation - Shell Mates

Cypber security event that covers the usage of gdb, and secure coding in C programming.

CERTIFICATIONS

Using Python to Access Web Data – Coursera

An online non-credit course authorized by University of Michigan and offered through Coursera

Computer Vision - Object Detection with OpenCV and Python – Coursera

An online non-credit course authorized by Coursera Project Network and offered through Coursera

HTML, CSS, & Javascript – Udemy

Certify that Lalmi Ahmed successfully completed 5.5 total hours of HTML, CSS, & Javascript - certification course online

LANGUAGE COMPETENCIES

- ❖ **Arabic:** Native language
- ❖ **English:** Fluent (*language of education*)
- ❖ **French:** Medium