Oussama BOUSSELMI

Electronic and communication systems engineer

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Education

Ph.D. in Information and Communication Science and Technologies

National School of Electronics and Telecommunications of Sfax

Present Sfax,Tunisia

ELECTRONIC SYSTEMS AND COMMUNICATION ENGINEERING

National School of Electronics and Telecommunications of Sfax

2016 – 2019 Sfax,Tunisia

Preparatory cycle in physics and chemistry

Preparatory institute for engineering studies in Bizerte

2014 – 2016 Bizerte,Tunisia

High school degree in Mathematics

High school Environment Boulevard

2013 Jendouba,Tunisia

Professional experiences:

Projet de fin d'étude:

2019 SOGIMEL, Sfax

INTELLIGENT ROAD CROSSROADS MANAGEMENT:

The job is to make an automatic decision on the duration of a traffic light based on traffic statistics. This function makes statistics on the number of vehicles and the number of cars waiting for the green light and takes the decision in order to minimize the waiting time.

KEYWORDS: Jetson-TX2, Python, Artificial intelligence, Linux

End of year project:

2018 ENET'COM, Sfax

STUDY AND REALIZATION OF A CONTROL BOARD FOR AN ELECTRIC CAR:

The work consists of making an electronic card for an electric vehicle motor and programming it to control the direction and speed of rotation as well as the electrical regeneration during braking.

KEYWORDS: C , LABVIEW , ISIS

Academic Projects:

Smart House: prototype of a smart home controlled by a labVIEW interface.

KEYWORDS: labVIEW, C, Python, UML, MySQL, Raspberry, Arduino

Avoiding follower robot: Design and production of an evasive follower robot programmed with STM32

KEYWORDS: C, STM32, CubeMX, ultrasonic sensor, TCRT 5000 sensor.

Smart trash can: It is a bin that measures the fill level using an ultrasonic sensor and displays this level on an LCD display. This bin can open its lid automatically when passing with a hand.

KEYWORDS: IOT, C, Android, MySQL, Arduino.

Design and realization of a parking control system based on a PIC 16F877 microcontroller

KEYWORDS: PIC16F877, MLX90333 sensor, C

Cancer detection: classification of benign or malignant cells

KEYWORDS: SVM, Pandas, Sklearn

Predict an appropriate medication for a patient

KEYWORDS: numpy, pandas, DecisionTreeClassifier

Movie recommendation for the user:

KEYWORDS: Python, Content-based recommendation system

Skills

- Programming languages :
  - C /C++
  - Python
  - Java
  - VHDL
  - Matlab
- Software and environments:
  - Visual Studio
  - Pycharm
  - Eclipse
  - Android Studio
  - CubeMX
  - LABVIEW
- Data extraction:
  BeautifulSoup , Request ,Selenium
- Django

Embedded platforms

- NVIDIA-JETSON-TX2
- RASPBERRY PI
- FPGA
- ARDUINO
- STM32
- ESP32

Languages:

- English
- French (TCF-C1)
- Arab

Certifications:

- Applied data science with python
- Data analysis with python
- Data visualization with python
- Scrum Master training (udemy)

Community life :

- Treasurer and active member of the BENEVOLE ENETCOM club
- Active member of ENETCOM robotics club

Hobbies

- VIDEO GAMES
- READING
- SPORTS