Arbi Benzarti

Electronic Systems and Communications Engineer

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I am currently a 3rd year engineering student in electronic and communication systems engineering at the Sfax National school of electronic and telecommunication, looking for an end-of-study internship.

Education

Electronic Systems and Communications Engineering Cycle Sfax National School of Electronics and Telecommunications sfax

Since September 2018

Preparatory cycle for engineering studies Physics/ chemistry Sfax Faculty of Science sfax

From August 2015 to June 2018

Baccalaureate in Experimental Science High school Elmanzah Street beni khaled beni khaled nabeul

From September 2011 to June 2015

Work experience

intern Telecommunications New Technologies and Systems Unit (NTSC'om) Sfax, Tunisie

From July 2020 to September 2020

Create a Machine Learning model that aims to predict traffic flow and predict traffic jam
. Develop a web application for doctors to facilitate the work with urgent cases and also direct interaction with patients if there is a medical consultation.
* Keywords: Python/Anaconda/pandas/scikit-learn/java

intern Tunisie Telecom Nabeul, Tunisie

From July 2019 to August 2019

Operation and maintenance of units
After-sales services
Repair of damage

Methodologies

Agile Scrum
Lean Six Sigma

organizations

Enactus Enet'com (08/2019 -08/2020)
Treasurer

Projects

- **End of year project (Application of keratoconus diagnostics):**

develop an algorithm based firstly on the processing of OCT and Orbscan images and to analyze the data from these two types of corneal imaging and in the second part treatment is given to solve the current problem in the diagnosis of keratoconus disease.
* Keywords: Labview/Python/TensorFlow

-Deploy models with TensorFlow Serving and Flask:

Serving a TensorFlow template with TensorFlow Serving and Docker.
Create a web application with Flask as an interface to a served template.
* Keywords: Tensorflow/flask/python

- **Desktop application for blind people :**

The goal is to extract text from an image and transform it into written text, Braille, or audio at the user's discretion.
* Keywords: python/OCR/open-cv

- **Computer vision project :**

Develop an application that detects street signs and translates them into user language.
* Keywords: Python/OpenCV

- **Detection system:**

Develop an accident detection system
* Keywords: Python/ convolutional neural network(CNN)

- Classification of traffic signs:

* Keywords: Python/Keras/TensorFlow

- **Data visualization with Python:**

Creating a data table
MatPlotLib to plot data
Use Seaborn to visualize the data
* Keywords: python/matplotlib/pandas

Skills

Programming languages: Python, C, C++, JAVA

Framework: Flask

database management system: MySQL

Data science platform : Anaconda , Jupyter (Notebook,Lab)

Modeling Language: VHDL

Simulation and modeling tools: ModelSim ,Labview Simulink, Mplab, Matlab ,CubeMX ,Simplorer

CAD Tools : Proteus8 ,Altium designer

Electronic boards : STM32 , FPGA , Arduino , Raspberry pi 3

Operating Systems: Microsoft Windows, GNU/Linux

Protocols: CAN,I2C,TCP/IP

Methodology: UML

IDE: Visual Studio code,Pycharm,Android Studio

Languages

Arabic

French

English