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Education

- **Embedded SW Bootcamber** - Avelabs, Egypt Feb.2019- May 2019
- **Ain Shams University, Egypt** Mechatronics Engineering, B.Sc. Sept. 2013 – July 2018

Skills

Programming skills:

- C/C++
- Python
- Matlab
- Open CV

Fields :

- Embedded Systems
- Machine Learning
- Computer vision
- Control systems

Tools:

- CANOE
- Autosar Davinci Configurator
- Autosar Davinci Developer
- Jira
- Plastic
- Solid Works

Electronic controllers:

- Jetson Tx2
- Jetson Nano
- Raspberry Pi
- Tiva c

Language skills:

- Arabic: Mother Tongue
- English: Very Good

Professional_Experience

Embedded SW Engineer - Avelabs, Egypt May. 2019- Present

- Creation of NVM blocks using DaVinci Developer and Davinci Configurator.
- Implement different types of Indication flags to detect any failures in the NVM operations .
- Creation of SWCs for Application Layer and RTE Ports using Vector DaVinci Developer.
- Perform (Unit Testing), Using CANoe, and Lauterbach Trace32 tools for fixing the software bugs.
- Dealing with JIRA and Plastic tool for tracking the tickets and apply the process of branch merging

Cources

- Udacity Machine Learning Nanodgree
- Udacity Self Driving Nanodgree
- Udacity Sensor Fusion Nanodgree
- Udacity AI programming with Python Nanodgree
- Udacity C++ Nanodgree
- Udacity Computer Vision Nanodgree
- Udacity Intro to Self-Driving Cars Nano-degree

Projects

Graduation Project (Autonomous Car):

- Developed a software for Autonomous Driver-less Vehicle systems.
- Created the Lane detection algorithm.
- Programmed part of the Object detection algorithm.
- Created the Depth estimate algorithm using Stereo Vision using ZED Camera.
- Integrate object detection, lane detection and depth estimation and link the output to a Tiva-c launchpad kit.