Shamekh Al-Suwi

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Experience

Mixed Dimensions **Feb 2020 - Present**

- R&D software engineer.
- Implementing geometrical mathematical solutions and building programs to fix unprintable or damaged 3d models for commercial 3d printed models industry.
- C++, OpenCl.

Bahbish **Jan 2019 - Apr 2019**

- Mechatronics Intern
- CAD in microscopes automation design, development and integration of real-time solutions for vibration problems.
- React-Native to build mobile applications for user interface

Contests

The contests below are national, regional and global contests related to programming, problem solving, algorithms and data structures that I competed in with my rank in it.**Click on the contest to view the certificate**.

- ieeeXtreme 2019 93rd of 9400
- Africa and Arab Collegiate Programming Contest 2019 28th
- Jordan Collegiate Programming Contest 2019 5th
- Jordan Collegiate Programming Contest 2018 13th
- Arab Collegiate Programming Contest 2017 92nd

Education

University of Jordan
Mechatronics Engineering
June, 2019 *GPA: 3.15*

- *Neural Networks, Fuzzy Logic and Genetic Algorithm*
- *System Dynamics, Control Theory, Robotics and Automation*
- *Embedded Systems and Digital Logic*

Project

Design of Intelligent Transportation System

My bachelors **graduation project** regarding the transition era where non-smart vehicles (vehicles that can't communicate) still around and must be included in calculations.

This project introduces an algorithm design in which we propose our methodology within the transition era where smart, and non-smart vehicles coexist, the proposed design utilizes the V2V technologies to locate, tag, track and estimate the non-smart vehicles where smart vehicles cooperatively use and share such data to create maps, predict collisions or share warnings. The design generalizes the V2V concepts to include non-smart vehicles into the calculations.

The design utilizes the Kalman filter for GPS error reduction, the mean shift clustering for data redundancy as well as uniquely tagging non-smart vehicles. Sumo, Veins and OMNet++ Simulators where used to test the algorithm.