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Adel Ansari

Skills & Interests

- Statistical and quantitative measurements using analytical means and computational software.
- CAD modeling and structural analysis in FEM software Packages.
- Data science, mathematics, statistics, Front-end development, Machine & Deep Learning

Education

September 2017–Current **M.Sc. Mechanical Engineering, Aalto University, Finland**

Thesis Topic: *Interactions of Mechanical Waves and Superhydrophobic Coating*

- Structure modeling using beam, rigid, and force elements in Mathematica.
- Design of LQR and PID controller for over-head crane sway control in MATLAB, CAD simulation, component selection and dynamic visualization.
- Detailed design of the front wheel suspension for a Formula car based on MBS, FEM, machine components, lifetime calculation, cost estimation and evaluation.

September 2012–June 2016 **B.Sc. Nuclear Engineering, University of Sharjah, UAE**

Senior Year Project: *Radioactive Environmental Monitoring in the City of Sharjah*

- Initial design calculation of PWR components and main cycle with focus on reactor core and vessel, fuel assembly, pressurizer, coolant pumps, steam generator, turbine and condenser in MATLAB.
- Monte Carlo program using MATLAB that simulates gamma ray transport in two dimensions (X-Y) in order to predict response of a continuous level gauge.
- Developed a graphical user interface using MATLAB for analyzing the spectrum of different radiation sources.

Professional Experience

June 2020–August 2020 **Junior Software Developer, A-Insinööri, Finland**

- Developed a software using Django framework in Python for geotechnical, structural and chemical analysis.

May 2018–December 2018 **Research Assistant, Aalto University, Finland**

- Joint appointment between Department of Neuroscience and Biomedical Engineering and Department of Applied Physics.

September 2018–October 2018 **Teaching Assistant, Aalto University, Finland**

- Instructor and course: Tommi Mikkola, Fluid Dynamics
Duties: Supervise exercise sessions, assist students to solve assignments, grade assignments and exam papers.

September 2016–November 2016 **Research Assistant, University of Sharjah, UAE**

- Experimental setup, data collection and analysis of microstructure, X-ray diffraction and mechanical properties for metallurgical research.

Languages and Software

- Languages:** English (Fluent, CEFR level=C1), Persian (Native proficiency), Arabic (Bi-lingual proficiency), Finnish (1B).
- Programming Languages:** MATLAB, Go, Typescript, JavaScript, Python, ReactJs, C++, VB, LaTeX, HTML, Hadoop, TensorFlow
- Software Skills:** NX, SolidWorks, CATIA, ANSYS, COMSOL, Teamcenter, Siemens FEMAP, PLM, NX, ABAQUS, PTC Creo, AutoCAD, MathCAD, Fusion 360, Mathematica, Simulink.