

Ahmed Ismail Shehata

Professional Summary

Dedicated Mechanical Engineer with outstanding knowledge and result orientated attitude keen to grow and build upon himself in the engineering industry. Looking to bring further success through strong skill set and proactive demeanor.



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Egyptian / Canadian



Dubai, United Arab Emirates



08/07/1997

Skills

- AutoCAD 2D
- Solid Works
- Microsoft Office 365
- AutoDesk Inventor
- Mathworks MATLAB
- C/C++ Programming
- Arduino Circuits and Programming
- LabView NI
- Manufacturing Methods
- Structured Text & PLC Programming
- ERP System - Microsoft Dynamics Navision

Coursework Projects

- Senior Thesis: Biologically inspired mechatronics drone with the analysis of V simulated bird migration and the utilization of flapping wings
- PID controller design and implementation for autonomous vehicles
- Renewable design and HVAC analysis of eco-green building implementation
- Automotive two stage gearbox design for electric vehicles
- Analysis of heat transfer and fluid mechanics exercises through CFD analysis and finite element analysis

Languages

Arabic



Native Speaker / Bilingual

English



Native Speaker / Bilingual

Certifications

Fundamentals of Engineering (FE)

July 2019

- Awarded by the NCEES

Certified SolidWorks Associate (CSWA)

June 2022

- Awarded by the SolidWorks

Professional Engineering License (PEO)

- Enlisted and Ongoing (EIT program), Ontario, Canada

Work Experience

September 2021 - Current

R&D Mechatronics Engineer, Vitronic Machine Vision, Dubai, United Arab Emirates

- Designing, developing and enhancing new & existing traffic enforcement technologies for the Middle East and Africa markets. (LiDAR, Solar, 3D Modeling, AI).
- Conducting research and demonstrating technical feasibility with the evaluation of future technologies via proof of concepts.
- Generated engineering prototype along with technical documentation to facilitate new products localization within Vitronic's MENA product portfolio.
- Collaboration and assistance in product development in addition to testing facilities with headquarters R&D team on joint venture projects.
- Current Projects: Off-grid Solar Housing Upgrade, Noise Sensor, Video Analytics Topics

December 2020 - September 2021

Production Engineer, Wilo Group, Dubai, United Arab Emirates

- Coordinate production planning and workflow for one or multiple products while plan and prioritize operations to ensure maximum performance.
- Practiced lean management and 5S principles, leading to improvements in workflow, quality and waste reduction.
- Created engineering drawings and designs which include manufacturing processes as well as equipment specifications.
- Designed and incorporated process design improvements.

December 2019 - June 2020

Technical Support Engineer, Thyssenkrupp, Dubai, United Arab Emirates

- Collaboration with design, production, and engineering departments for modifications based on potential clients' needs.
- Demonstrating and consulting scientifically advanced products to potential clients and its better aptness compared to competitors.
- Establishing a link between the factory and clients while enlightening clients about company's products.
- Coordinated with systems partners to finalize designs and confirm requirements.

June 2018 - August 2018

Service Engineer, Audi, Dubai, United Arab Emirates

- Analyzed, troubleshoot and diagnosed problems and provided prompt repair and solutions.
- Specified system components and directed product modifications to ensure conformance with engineering design and performance specifications.
- Investigated equipment failures to diagnose faulty operation and made appropriate maintenance recommendations.

Academic History

September 2015 - July 2019

American University of Sharjah

Bachelor's of Science, Mechanical Engineering, Sharjah, United Arab Emirates

- Cumulative GPA: 3.12 of 4
- Awarded dean's list scholarship
- U.S. ABET accredited program
- Member of the ASME committee as events coordinator, September 2016 - June 2017