

Marwan Qari

Product Engineering and Development

Aspiring to solve problems and challenges through technology and engineering, one step at a time. I also make good fried eggs.

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Los Angeles, United States 📍

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WORK EXPERIENCE

CAD & Simulation Engineer

WRTeknica

09/2020 - Present

City of Industry, United States

Achievements/Tasks

- Established an engineering unit to conduct research and development in Computational Fluid Dynamics, Finite Element Analysis, and Fluid-Structure Interaction Analysis.
- Performed simulations exploring various subjects, including mechanics of materials and vector dynamics.

Contact: Will Wattanawongkiri - will@wwr-racing.com

Mechanical Quality Engineer

Snap-on Incorporated Speciality Tools

04/2018 - 11/2018

City of Industry, United States

Achievements/Tasks

- After performing tests and engineering analysis, an updated design was delivered for the most technologically advanced product the company had produced yet: the electronic torque screwdriver.
- Delivered a productive workflow structure following strict Shingijutsu Kaizen techniques for production efficiency and lean manufacturing. Including the recommendation of updated production equipment that assisted with the rapid continuous improvement.
- Assisted quality control, the engineering department, and R&D with metal heat-treatment quality assurance and TQ model torque wrench product troubleshooting.

Contact: Georgina Perez - georgina.a.perez@snapon.com

CAD Design Engineer

Siemens AG LTD

06/2012 - 07/2014

Jeddah, Kingdom of Saudi Arabia

Achievements/Tasks

- Delivered mechanical engineering drawings of electrical switchgear systems using AutoCAD. And performed operations on CNC machines to fabricate the designs.
- Applied material behavior and strength of materials expertise on the engineering designs.

Contact: Miller Narvas - m.narvas@siemens.com

CERTIFICATES

Autodesk University: Generative Design for Product Design and Manufacturing (11/2019)

Autodesk University: Simulating Sheet Metal Forming in Fusion 360 Event Simulation (11/2019)

ENGR2000X A Hands-on Introduction to Engineering Simulations (12/2019 - Present)

Cornell University Online Learning Initiative.

EDUCATION

Mechanical Engineering M.S.

Merrimack College

01/2020 - Present

North Andover, United States

Courses

- Advanced Mechanics/Finite Element Analysis
- Mechanical Engineering Systems Design
- Heat Transfer Engineering
- Computer Solid Modeling and Virtual Simulation
- Theory of Engineering Measurements and Data Analysis

Information Technology B.Sc.

Northeastern University

09/2016 - 08/2020

Boston, United States

Courses

- Capstone: Design & Usability Engineering
- Information Science Project Management

Computer Science A.A.

Bunker Hill College

09/2014 - 12/2017

Boston, United States

Courses

- Advanced Algorithms in Java
- C & C++ Programming
- Data Structures & Software Engineering
- Network Security

Mechanical Engineering A.Sc.

Bunker Hill College

09/2009 - 05/2012

Boston, United States

Courses

- Mechanical Behavior of Materials
- Mechanics of Materials & Structural Engineering
- Capstone: Design Research in Engineering Mechanics of Materials with emphasis in Material Behavior and Composite science
- MATLAB Programming
- Applications of Static Equilibrium
- Engineering Vector Dynamics
- Differential Equations and Linear Algebra

TECHNICAL SKILLS

Computer Science and Information Technology

Lean Six Sigma, Systems Engineering, Java, C, C++, Javascript, Swift, HTML, SQL, MATLAB.

Product Design and Manufacturing

CNC machining, 3D Printing, CAD, Generative Design & Topology Optimization, Computational Fluid Dynamics Simulation & Structural Analysis using ANSYS.