

ZEYAD HASSAN

Nationality: Egyptian. Place of Birth: Alexandria.
Gender: Male. Marital Status: Single.
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➤ Education

- Masters of Science student in **Computational Mechanics**, at **Technical University of Munich, Germany**
 - Main Focus: Computation in engineering track
 - Accumulative Grade: N/AOctober 10th, 2019 – Ongoing
- Single Courses in **Informatics** at **Politecnico di Torino, Italy**
 - Object oriented programming 8 ECTS credits
 - Introduction to Databases 8 ECTS creditsOctober 1st, 2019 – Ongoing
- Bachelors of Science degree in **Mechanical engineering** at **Politecnico di Torino, Italy**
 - Final Project: Computational design of the Solar Power Tower using MATLAB code.
 - Final Grade: 103/110October 5th, 2016—July 26th, 2019

➤ Experience/Internships

- Research Assistant (HiWi) – **Technical University of Munich** – Chair of Forming Technology and Founding (Lehrstuhl für Umformtechnik und Gießereiwesen Fakultät für Maschinenwesen).
 - Working in a joined project between Technical University of Munich (TUM), Institut für Elektrische Maschinen at RWTH Aachen, Heinz Maier-Leibniz Zentrum (MLZ). My role is the investigation of the residual stress distributions using finite element simulations based on different embossing geometries. In addition to the assessment of the feasibility of the embossing.Nov. 7th 2019 - Ongoing
- Research Assistant – **Politecnico di Torino** – Department of Applied science and technology.
 - Worked on performing coatings for different technical textiles (Fibers and Metals) with aluminum doped silicone and testing their anti-bacterial behavior in the applications of filtering (Air-conditioning, Combustion filters and filters used in burner of power plants).April 4th – May 30th 2018
- Internship in the Operation department at **NATGAS**, the company is specialized in natural gas distribution.
 - Internship in an industrial company specialized in natural gas distribution. Had an extensive experience in a compressor pressure station of natural gas and had an insight of the day to day tasks of the responsible Mechanical engineer and the detailed technical knowledge needed to perform its maintenance.August 13-30, 2017
- Internship at **Alexandria Petroleum Company**, the company is specialized in Petroleum and Oil refinement.
 - Enhanced my knowledge about the oil and the gas industry.July 1-30, 2016

➤ Projects/Competitions

- Participated in **SAE AERO-DESIGN EAST** Competition (ADVANCED CLASS)–Lakeland, Florida USA – April 21-23, 2017
'Design and manufacture of a remote-controlled aircraft for humanitarian aid.'
 - Participated with the same project in **Cairo innovates international fair** in November 2016, Cairo, Egypt. And took the **1st place** with an award of 20,000 EGP given by the minister of higher education.
 - Main role: Wing Design, Aerodynamic analysis, Flow analysis on Wing using ANSYS Fluent, Fabrication.
 - Had some experiences in technical writing and documentation of technical reports.
- Participated in **ROV MATE 2016** Competition – **NASA JOHNSON SPACE CENTER'S NBL** - Houston, TX, USA – June 23-25, 2016
'Design and manufacture of a Remotely Operated Under-Water Vehicle (**ROV**) for space mission simulations.'
 - Reached **3rd place** in the regional competition -- **2nd place** in the local competition.
 - Main role: ROV technical maintenance, Flow analysis, Stress analysis on SolidWorks, Buoyancy and stability system, Glass-Fiber manufacturing, Motor casing design and sealing, Experimental test for each part.
 - Secondary role: Reviewing all CAD designs, Sealing cameras and electric components, Fabrication.

➤ Independent Coursework

- **A Hands-on Introduction to Engineering Simulations**
 - Sponsored by ANSYS and verified certificate from **Cornell University** in an Online learning initiative.
 - Certificate ID: a7ab6a5e86144d70bb0ea529a8783437

➤ Certificates and Licenses

- Certified SolidWorks Associate (CSWA) Certificate ID: C-MU3LHNCTFP

➤ Software Skills

- **Mechanical Related:**
 - SolidWorks
 - CATIA V5
 - ANSYS APDL/Fluent
 - QFORM
 - AutoCAD
 - ABAQUS
- **Programming Languages:**
 - C / C++
 - Oracle DBMS (mySQL)
 - Java
 - MATLAB
 - Python
- **Miscellaneous:**
 - Microsoft Office
 - Linux

➤ Languages

- Arabic (Mother tongue)
- English (C1)
- German (A2)
- Italian (B1)