



Mahmoud Z. Zidan

CONTACT INFORMATION	 +49 1525 4370543  zidanmahmoud.github.io  m.zidan@tum.de  80805 Munich, Germany  https://www.linkedin.com/in/mahmudzz/
EDUCATION	The Technical University of Munich , Munich, Germany MSc, Computational Mechanics , November 2019 Main Focus: <i>Structural Analysis and Material Modeling</i> Graduated with Distinction Advisors: Prof. Dr.-Ing. Kai-Uwe Bletzinger and Klaus Bernd Sautter, M.Sc. Kuwait University , Kuwait BSc, Civil Engineering , May 2017 Main Focus: <i>Structural Analysis and Design</i> Graduated with Distinction with Class Honor (1 st on class) Advisor: Prof. Humayun R. H. Kabir 
WORK EXPERIENCE	Graduate Research Assistant , <i>Munich, Germany</i> 05.2020 - 06.2021 Associate Professorship of Computational Mechanics Research project: Multi-fidelity robust design optimization using intrusive non-linear Model Order Reduction Graduate Student Assistant , <i>Munich, Germany</i> 05.2019 - 08.2019 Hydromechanics Chair – Technical University of Munich Co-tutoring for the Computational Fluid Dynamics Lab. Graduate Student Assistant , <i>Munich, Germany</i> 05.2018 – 03.2019 Structural Analysis Chair – Technical University of Munich Development of Python tools with graphical user interfaces for the courses Theory of Plates and Non-Linear Finite Elements. Construction Site Engineering Intern , <i>Kuwait</i> 07.2016 – 09.2016 Combined Group Contracting Company Carried out quantity surveying, shop drawings, and design checks in between two construction sites, Volkswagen Showroom and NATO Regional Center
AWARDS	Graduation with Class Honour , (BSc) 06.2017 Graduated with a GPA of <i>3.94/4.00</i> Attained a scholarship, Kuwait University 09.2013 – 06.2017 The Scholarship of The Minister of Education, <i>Kuwait</i>

ACTIVITIES	Student Council Committee, <i>Kuwait University</i> 02.2017 – 06.2017 Chosen by the committee of professors to represent the students of Civil Engineering in Kuwait University, and held meetings with the professors to discuss suggestions to improve the department
	American Concrete Institute, <i>Kuwait</i> 11.2015 – 06.2017 Student Committee Active Member, <i>Kuwait University</i>
VOCATIONAL EDUCATION	LS-Dyna Course 08.2018 <i>Explicit FEM</i>
	Autodesk Revit: Structural Course 06.2017 <i>Structural Modeling</i>
	Autodesk Revit: Architectural Course 08.2016 <i>Architectural Modeling</i>
	ETABs & SAFE Course 03.2016 <i>Structural Design</i>
PROJECTS	Please refer to this website for more details on the projects.
	Flexibility-Based Fiber Beam-Column Element to Model Reinforced Concrete Under Seismic Loading, <i>Master Thesis</i> 11.2019
	Structural Wind Analysis of The High-Rise Building 1180 Peachtree Using The Eurocode Standard and CFD Simulations 03.2019
	Space-Time Finite Elements For 1D Heat Equation 11.2018
	Implementation of Trimmed Isogeometric Analysis for Membrane Structures 08.2018
	Analytical Structural Design and a Feasibility Study of a Commercial-Residential Building Following the Standards of Kuwait, <i>Bachelor Thesis</i> 06.2017
LANGUAGES	Arabic: Native proficiency English: Professional working proficiency German: Intermediate proficiency (B1 Level)
ENGINEERING SKILLS	Structural Analysis and Design Finite Element Analysis Computational Fluid Dynamics Fluid-Structure Interaction
COMPUTER SKILLS	Git Python C++ LaTeX OpenFOAM ANSYS Linux