

CONTROL FOR GREEN MECHATRONICS (GREEM)

INTERNATIONAL MASTER

A SPECIALITY OF "CONTROL & ROBOTICS" OF THE FRENCH MINISTRY OF HIGHER EDUCATION & RESEARCH

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Besançon France, September 14, 2018

Object: Information

To students: M1 and M2 GREEM

Course title: Engineering Design and Advanced Manufacturing

Time: Saturday the 29th of September 2018, 9am - 11am,

Place: Amphitheater-B, Building-B, UFR-ST, 16 route de Gray, 25000 Besançon

By: Dr Yasser AL HAMIDI, lab manager at TEXAS A&M UNIVERSITY AT QATAR

Bio: <https://www.qatar.tamu.edu/programs/mechanical-engineering/faculty-and-staff/yasser-al-hamidi>



Dr. Yasser Al-Hamidi received his PhD degree in 2017 in Control Systems from the Université Bourgogne Franche-Comté (UBFC), Besançon, France, the same university from which he received his M. Sc. degree in Mechatronics in 2013. Dr. Al-Hamidi joined Texas A&M University at Qatar in 2007 as a technical laboratory coordinator then was promoted to a Manager of Mechanical Engineering Laboratories in December 2011. Prior to joining Texas A&M University at Qatar, Dr. Al-Hamidi worked as a laboratory engineer in the college of engineering, University of Sharjah for seven years. Dr. Al-Hamidi leads the **Engineering Enrichment Program** (EEP) in the university since 2016. The program aims to plan and develop extra-curricular activities for TAMUQ students to provide them with a unique set of skills and competencies that will distinguish them among other engineers in Qatar and internationally. The program aims also to promote

entrepreneurial mindsets by providing students with the opportunity, materials, skills, and support to build their creations.

Dr. Al-Hamidi was selected in 2015 to receive the **AFS Distinguished Achievement Award**, the most prestigious award university-wide (amongst all international campuses), as a recognition for his outstanding commitment, performance and positive impact on Aggie students. In 2014, Dr. Al-Hamidi won the first place in the **Big Idea initiative**, to promote and encourage innovation, creativity and productivity. In 2010, Dr. Al-Hamidi received the **STAR Award** for his distinguished **Service, Team spirit, Attitude and Responsibility** that exemplify the spirit of Texas AM at Qatar. His research interests include Vibration Control and Vibration Suppression, Input Shaping Feedforward Control, Control Techniques for Piezoelectric Actuators.

Abstract of the course:

Design for Manufacturability (DFM) allows potential problems to be fixed in the design phase which is the least expensive place to address them. Depending on various types of manufacturing processes there are a set of guidelines for DFM practices. These DFM guidelines help to precisely define various tolerances, rules and common manufacturing checks related to DFM. Recent developments in the so called Advanced Manufacturing (AM) involved the use of technology to improve products and/or processes to make life easier for manufacturers. Dr. Al-Hamidi will give a general overview of advanced manufacturing, different technologies being currently used, and its advantages over traditional manufacturing. The talk will also show case different areas where advanced manufacturing is playing a key role in providing custom and personalized solutions.