

MEERA WAKIM

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Austin • (281) 900-5197 • U.S. Citizen

EDUCATION

The University of Texas at Austin	Bachelor of Science in Mechanical Engineering	December 2018
	Texas Business Foundations Summer Institute	Summer 2016
	Elements of Computing Certificate	December 2018
<i>Related Courses:</i> Elements of Software Design, Probability and Statistics, Fluids, Dynamics, Thermodynamics, Computational Methods, Engineering Graphics and Design		

EXPERIENCE

Socially Intelligent Machines Lab Robocup League – Intern; Austin, Texas		Summer 2017
<ul style="list-style-type: none">Inherited OpenPose into a R.O.S. (Robot Operating System) environment in order to successfully superimpose a skeleton over a human frame in order to implement gesture recognition.Created a R.O.S. node that uses Toyota HSR data as input in order to generate a PDF report of the team's task progressCollaborated with a team of 35 graduate students to prioritize certain challenges from the Robocup League, and to delegate tasking and set a definitive production timeline.		
University of Texas Nuclear Robotics – Student Researcher; Austin, Texas		August 2015 – April 2016
<ul style="list-style-type: none">Facilitated the development of a fully automated system that can execute object recognition using three-dimensional point cameras in order to quickly add new items to a recognition setUtilized Python in a Linux based operating system (Ubuntu) in order to run R.O.S.		
Wood Group Mustang Engineering – Student Intern; Houston, Texas		October 2014 – April 2015
<ul style="list-style-type: none">Pioneered and developed 4D-modeling, which integrates 3D models with construction scheduling to visually simulate project build processes based on a specified timeline. This is now used to equip Mustang with a competitive edgeSystematized Closeout Report Data Collection and constructed a program to predict future project statistics based on past information		

ACADEMIC PROJECTS

ME 302 Reverse Engineering Project – Team Leader		January 2016 – May 2016
<ul style="list-style-type: none">Led a team of 5 people in deconstructing an aluminum portable bike pumpDesigned and displayed the parts three dimensionally using Solidworks; built a tangible model using rapid prototyping		

LEADERSHIP EXPERIENCE AND ACTIVITIES

Robotics Automation Society (RAS) – Committee Head, Historian, Team leader		September 2015 - Present
<ul style="list-style-type: none">Region V: Led an interdisciplinary team to compete in a national competition hosting 30 universities showcasing an autonomous laser-cut, holonomic drive robot that uses sensor input to map a field, visually process images, and lift field objects. Leadership responsibilities included mechanical design, responsibility delegation, and budget managementRobotathon: Built and three dimensionally modeled a competitive lasercut holonomic drive robot.		
Capital One Summit for Developing Leaders		January 2017
<ul style="list-style-type: none">Competed in a weeklong, highly selective case competition with a 15% acceptance rate and presented a web application designed to educate young consumers in financial responsibility and literacy.		
Longhorn Racing Electric – Machinist		September 2016 - Present
<ul style="list-style-type: none">Interacted with steel and aluminum material to machine electric vehicle parts using horizontal band saws, lathes, and milling machines		
American Society of Mechanical Engineers (ASME) – Active Member		September 2015 - Present
Women in Engineering (WEP) – Active Member		September 2015 - Present
Society of Petroleum Engineers (SPE) – Active Member		September 2015 - Present

HONORS

UT Makeathon Competition – First Place		October 2016
<ul style="list-style-type: none">Designed and built a handmade system to transport delicate entities from an elevated position to ground level		
Society of Petroleum Engineers Scholarship (8 semesters)		2015-2019
Texas Exes Alumni Scholarship (2 semesters)		2015-2016
Excellence in Technical and Career Education Award		2015

ADDITIONAL INFORMATION

Computer Skills: Python, Java, Matlab, R (statistical computing), Solidworks, Processing Graphics Library, HTML, CSS, MS Word, Excel
Engineering Skills: Machine Shop Training (i.e. milling machine, lathe), Wood Shop Training, Laser Cutter Operation, 3D Printing, PDS Primavera Project Scheduling

Languages: Fluent in English and Arabic, Conversational Mandarin