MOUHYEMEN AHMED KHAN

To gain experience in core robotic areas involving controls, perception, and/or artificial intelligence.

391 17 Street NW Apt 3053
30363, Atlanta, GA

+1 (404) 797 1791

/in/mouhyemen

mouhyemen.khan@gatech.edu

EDUCATION

Georgia Institute of Technology   2017 - Present
Ph.D. in Electrical & Computer Engr.
GPA: 4.0

Georgia Institute of Technology   2016 - 2018
M.Sc. in Electrical & Computer Engr.
GPA: 3.86

Texas A&M University   2010 - 2014
B.Sc. in Electrical & Computer Engr.
Graduated with Magna Cum Laude
CGPA: 3.744   Major GPA: 3.89

STRENGTHS

Personal competencies:
Leadership
Communication
Teaching
Resiliency
Creativity

Technical competencies:
Kinematics
Computer Vision
Quadcopters

WORK EXPERIENCE

Qatar Robotics Institute for Development (QRID)   Aug 2013 – Present
Co-Founder & CEO (www.qrid-robotics.com)
Established first not-for-profit robotics institute in Qatar along with curriculum for hands-on robotics training. Developed and delivered first of its kind computer vision course for youth (8-18) in Qatar.

Carnegie Mellon University, Qatar (CMUQ)   Nov 2014 – May 2016
Research Assistant (Co-affiliation: Qatar University**)**
Developed a low-cost, agile and generic Cyber-Physical Testbed for Unmanned Aerial Vehicles. The project is funded by Qatar National Research Fund (QNRF). Advisor(s): Dr. Khaled Harras & Dr. Amr Mohamed

World Innovation Summit for Education (WISE)   Nov 2013-Dec 2014
WISE Learner (Affiliation: Qatar Foundation)
Developed technical content and business model for hands-on learning modules targeting younger audiences in Middle-East. Pedagogical, leadership, and entrepreneurial training under Yale World Fellows and Babson College.

PUBLICATIONS

Journal Paper   **M Khan**, Karel H., Amr M., Khaled H., "*Mobile Target Coverage & Tracking on Drone-Be-Gone UAV Cyber Phys-ical Testbed*" in IEEE Systems Journal, 2017

Ahmed S., Ahmed A., **M Khan**, Amr M., Khaled H., "On Realistic Target Coverage by Autonomous Drones" in Com-puting Research Repository, 2017

Conference Paper   Ahmed S., Ahmed A., **M Khan**, Amr M., Khaled H., "*Not Just a Blip on the Radar: Covering Wire Oriented Targets via Mobile Cameras*" in International Conference on In-formation Processing in Sensor Networks, 2017

Workshop Paper   **M Khan**, Sidra A., Karel H., Amr M., Khaled H., "*Drone-Be-Gone: An Agile Low-Cost Vision-based UAV Cyber-Physical Testbed*" in Autonomous Robots and Multirobot Systems, 2016

Demo Paper   **M Khan**, Sidra A., Amr M., Khaled H., "*Simulating Drone-be-Gone: Agile Low-Cost Cyber-Physical UAV Testbed*" in Autonomous Agents and Multiagent Systems, 2016

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PROJECTS

Localization using Particle Filter — 2018
GT CS8803 Statistical Techniques for Robotics

Online Bayesian Linear Regression — 2018
GT CS8803 Statistical Techniques for Robotics

Maze navigation using TurtleBot 3.0 — 2017
GT 7785 - Intro to Robotics Research

Quadcopter Position Controller using PID — 2017
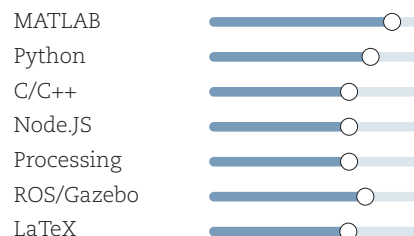Udacity Robotics Nanodegree

Object detection and classification using PCL — 2017
Udacity Robotics Nanodegree

Autonomous Control of NASA Mars Rover — 2017
Udacity Robotics Nanodegree

6-DOF Kinematics Pick & Place Challenge — 2017
Udacity Robotics Nanodegree

TECH SKILLS

Frameworks

MATLAB
Python
C/C++
Node.JS
Processing
ROS/Gazebo
LaTeX

Software

Microsoft Office
SolidWorks

Hardware

Intel Edison
Raspberry Pi
Arduino

Operating System

Linux
Windows

ACHIEVEMENTS AND HONORS

ECE Doctorate & Coulter Fellowship — 2016 - 2017
Georgia-Tech

Best QNRF Project for UAV Testbed — 2016
Meeting of the Minds, CMUQ

Best Student Organization for QRID — 2014
Hamad Bin Khalifa University, Qatar

Best ECE Undergraduate Thesis — 2014
Texas A&M University, Qatar

Qatar Foundation Fellowship — 2013 - 2014
Hamad Bin Khalifa University, Qatar

Dean's List of Honors — 2010 - 2014
Texas A&M University, Qatar
Fall: 2010, 2012, 2013
Spring: 2012, 2013, 2014

LANGUAGES (ILR SCALE)

English — Native proficiency

Bengali — Native proficiency

Hindi — Full proficiency

Arabic — Limited proficiency

French — Limited proficiency

PASSIONS

Dancing

Reading

Cooking

Traveling

Languages

Writing on Quora