M Usman Maqbool **Bhutta**

PHD CANDIDATE · DEPARTMENT OF ELECTRONIC AND COMPUTER ENGINEERING

Room 2008 (25), Robotics Institute, 2nd Floor, CYT Building, Lift(35-36), HKUST

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"Do it with passion or not at all."

Summary

Current co-founder of a start-up company Lisee Technology Corporation. 5+ years experience specializing in project management for research and development, web development and marketing at Friends Corporate Technologies. I have been a part of some other startups related to real estate, marketing, and automation. A super nerd who loves entrepreneurship, deep learning, and enjoys to develop the idea to reality. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises..

Education

The Hong Kong University of Science and Technology - HKUST
(Kowloon, Hong Kong)

PH.D. CANDIDATE, DEPARTMENT OF ELECTRONIC & COMPUTER ENGINEERING
Sep. 2016 - Present

- Got PEEF Pakistan scholarship to pursuing my studies
- Research interests; Multi-Agent SLAM System and autonomous car driving

Quaid-i-Azam University - QAU
Islamabad, Pakistan

M.PHIL. ELECTRONICS, DEPARTMENT OF ELECTRONICS
Mar. 2010 - Jun. 2012

- Research: Signal and Image Processing
- Grade: 1st Division (80% Marks)

Quaid-i-Azam University - QAU
Islamabad, Pakistan

M.SC. ELECTRONICS, DEPARTMENT OF ELECTRONICS
Mar. 2010 - Jun. 2012

- 2nd position in batch
- Grade: 1 st Division (74.6% marks)

Bahauddin Zakariya University - BZU
Multan, Pakistan

B.SC. IN MATHEMATICS AND PHYSICS
Mar. 2010 - Jun. 2012

- Grade: 1st Division

Research Publications

Multiple Lane Detection Algorithm Based on Optimised Dense Disparity Map Estimation
Conference Paper

HAN MA, YIXIN MA, JIANHAO JIAO, M USMAN MAQBOOL BHUTTA, MOHAMMUD JUNAID BOCUS, LUJIA WANG, MING LIU, RUI FAN
Oct 2018

  Accepted in IEEE International Conference on Imaging Systems and Techniques (IST) 2018

PCR-Pro: 3D Sparse and Different Scale Point Clouds Registration and Robust Estimation of Information Matrix For Pose Graph SLAM
Conference Paper

M USMAN MAQBOOL BHUTTA, MING LIU
Jul 2018

  Presented in IEEE Int. Conf. on CYBER Technology in Automation, Control, and Intelligent Systems, and won **Best Student Paper Finalist Award.**

An intelligent approach for robust detection and recognition of multiple color and font styles automobiles license plates: A feature-based algorithm
Conference Paper

M USMAN MAQBOOL BHUTTA, HASAN MAHMOOD, AND HAROON MALIK
Jul 2014

  Published in IEEE International Conference on Audio, Language and Image Processing (ICALIP).

Efficient Reset Design Techniques
Journal Paper

QAMAR, ZOHA, BUSHRA YASEEN, AND USMAN MAQBOOL
2015

  Published in Science International Lahore

Work Experience

INDUSTRY

Friends Corporate Technologies   *Islamabad, PK*

CEO   *Feb 2013 - Aug 2015*

   50+ Projects | Electronics/ Electrical Engineering, R&D, image processing, Web Applications Development, MVC Applications

Federal Government of Pakistan   *Islamabad, PK*

SCIENTIFIC OFFICER   *May 2012 - Feb 2013*

   Electronics/ Electrical Engineering, R&D, image processing

Server4Sale, LLC   *Islamabad, PK*

PHP DEVELOPER   *Dec 2009 - Mar 2010*

   Php web application development for Joomla and Zend frameworks.

ACADEMIC

Department of Computer Science   *BZU sub campus Sahiwal, PK*

LECTURER (VISITING)   *Feb 2016 - Jun 2016*

   Teaching MCS and BS-CS courses

Department of Physics   *Government PG College Sahiwal, PK*

CTI   *Aug. 2015 - Apr. 2016*

   Teaching BS physics (Electronics related courses + Labs + Projects)

Academic Activities

Fall 2018	**Teaching Assistant**, ELEC4820 - Medical Imaging	*HKUST, HK*
2018	**Referee Service**, IEEE/RSJ International Conference on Intelligent Robots and Systems	*IROS 2018*
Spr 2018	**Teaching Assistant**, EESM 5547 - Multimedia Signal Processing	*HKUST, HK*
Spr 2017	**Teaching Assistant**, ELEC 1010 - Electronic and Information Technology	*HKUST, HK*

Honors & Awards

INTERNATIONAL

July, 2018	**Best Student Paper Finalist Award**, IEEE Int. Conf. on CYBER Technology in Automation, Control, and Intelligent Systems	*Tianjin, China*
May, 2018	**Best Proposal Audience Award**, Campus Challenge - Transportation, HKUST	*HKUST, HK*
Nov, 2017	**Best Mapper Award**, Robotics and Multi-Perception Lab, HKUST	*Shenzhen, China*
May, 2017	**Completion Award**, The Graduate Teaching Assistant Training, HKUST	*HKUST, HK*
Dec, 2016	**Best External Award**, Robotics and Multi-Perception Lab, HKUST	*Shenzhen, China*
Nov, 2016	**Completion Award**, Author Workshop, Elsevier Publishing Campus	*HKUST, HK*

DOMESTIC

Sep 2013	**Participant**, Painting for peace (Pakistan-India-Afghanistan) event, a part of the Harmony initiative	*Islamabad, PK*
Apr 2013	**Participant**, Case Spark in business plan competition	*Islamabad, PK*
Apr 2013	**Participant**, Case EPICA	*Islamabad, PK*
Apr 2013	**Participant**, How to be a Better Playwright Workshop by PNCA and US Embassay Pakistan	*Islamabad, PK*
Oct 2012	**Participant**, Punjab Youth Festival	*Lahore, PK*
Oct 2011	**Participant**, Int'l Youth Conference and Festival	*Islamabad, PK*
Sep 2011	**Participant**, Asian Youth Conference and Peace Festival	*Lahore, PK*
Apr 2011	**Completion Award**, Acting and Directing Theater Workshop by PNCA and US Embassay Pakistan	*Islamabad, PK*
Dec 2011	**Participant**, National Drama Festival	*Islamabad, PK*
Dec 2010	**Instuctor of short Course**, PHP Web Development' at the Department of Electronics, QAU	*Islamabad, PK*
Apr 2013	**Completion Award**, Running River Rafting course by Adventure Foundation of Pakistan	*Mansehra, PK*
Apr 2013	**Completion Award**, Paragliding course by QAU Adventure Club	*Islamabad, PK*
Dec 2008	**Award of Honor**, Finance Secretary of Electronics Student Society (ESS) at QAU	*Islamabad, PK*