

M Usman Maqbool Bhutta

PHD CANDIDATE · DEPARTMENT OF ELECTRONIC AND COMPUTER ENGINEERING

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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: 1st 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

CEO

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

Islamabad, PK

Feb 2013 - Aug 2015

Federal Government of Pakistan

SCIENTIFIC OFFICER

Electronics/ Electrical Engineering, R&D, image processing

Islamabad, PK

May 2012 - Feb 2013

Server4Sale, LLC

PHP DEVELOPER

Php web application development for Joomla and Zend frameworks.

Islamabad, PK

Dec 2009 - Mar 2010

ACADEMIC

Department of Computer Science

LECTURER (VISITING)

Teaching MCS and BS-CS courses

BZU sub campus Sahiwal, PK

Feb 2016 - Jun 2016

Department of Physics

CTI

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

Government PG College Sahiwal, PK

Aug. 2014 - Apr. 2016

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 Embassy 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 Embassy 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