

# CURRICULUM VITAE

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## PERSONAL INFORMATION

Full Name -  
Date of birth -  
Postal Address *Office*  
-  
*Home*  
-  
Nationality Pakistan  
Email Address -@gmail.com, -@faculty.muuet.edu.pk  
Telephone -, -  
Number

## EDUCATION

Sept. 2012 – **Master of Science (MSc.) Electronic and Electrical Engineering**  
Sept. 2013 *Distinction ( 81.4%)*  
University of Strathclyde, Glasgow, United Kingdom  
Jan. 2006 – **Bachelor of Engineering (B. Engg.) in Electronic Engineering**  
March 2010 *1<sup>st</sup> Position ( 90.87%)*  
Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan

## WORK AND RESEARCH INTERESTS

I am currently working as an Assistant Professor in the Department of Electronic Engineering at Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan. My current research interests touch the following themes: signal/image processing along with machine learning for health applications; Embedded Systems for the development of Smart City solutions based on the Internet of Things; Educational development methodologies for developing countries.

## APTITUDE EXAMS

**GRE score of 316** (Verbal - 155, Quantitative - 161, Analytical - 4.5)  
**TOEFL score of 116** (Reading - 30, Listening - 30, Speaking – 28, Writing - 28)  
**IELTS score of 8.0** (Listening - 8.5, Reading - 9.0, Writing - 7.0, Speaking - 7.0)

## PUBLICATIONS

### *Journal*

1. A. Baqai, K. Memon, A. R. Memon, and S. M. Z. A. Shah, "Interactive Physiotherapy: An Application Based on Virtual Reality and Bio-feedback," *Wirel. Pers. Commun.*, pp. 1–23, Feb 2018 (**IF=1.2**)
2. A. Baqai, A. R. Memon, K. Memon & **S. M. Z. A. Shah**, "Kinect as a Generalised Interface for Games and PC Control," *Wireless Personal Communication*, vol. 95, no. 2, pp. 617–629, July 2017 (**IF=1.2**)
3. **S. M. Z. A. Shah**, S. Marshall & P. Murray, "Removal of specular reflections from image sequences using feature correspondences," *Machine Vision & Applications*, vol. 28, no. 3-4, pp. 409–420, May 2017 (**IF=1.272**)

4. M. S. Rattar, S. M. S. Shah, B.S. Chowdhry & **S. M. Z. A. Shah**, "Detection of Ventricular Arrhythmia from ECG" *Pakistan Journal of Computer and Information Systems (PJCIS)*, vol. 1, no. 1, pp. 17-28, October 2016

#### *Book*

1. B. S. Chowdhry, A. A. Ursani & **S. M. Z. A. Shah**, *The First Practical Book on Electronics Workshop: Can't Beat a Practical Approach!*. Denmark: River Publishers, 2014. ISBN: 9788793102477

#### *Conference Proceedings*

1. I. Khan, I. H. Kalwar, **S. M. Z. A. Shah** et. al, "Design and simulation of ABS based on Electromagnetic damping phenomena", *International Conference on Latest trends in Electrical Engineering & Computing Technologies 2017 (INTELLECT 2017)*, 15-16 Nov. 2017
2. K. R. Memon, S. Memon, B. Memon, A. R. Memon & **S. M. Z. A. Shah**, "Real time implementation of path planning algorithm with obstacle avoidance for autonomous vehicle," *3rd International Conference on Computing for Sustainable Global Development 2016 (INDIACom 2016)*, pp. 2048-2053, 16-18 March 2016, New Delhi, India
3. A.R. Memon, B.S. Chowdhry, S.M. S. Shah, T.R. Memon & **S. M. Z. Abbas Shah**, "An electronic information desk system for information dissemination in educational institutions," *2nd International Conference on Computing for Sustainable Global Development 2015 (INDIACom 2015)*, pp.1275-1280, 11-13 March 2015, New Delhi, India
4. B. S. Chowdhry, S. M. Z. S. Shah & **S. M. A. Shah**, "A Tutorial Based Learning Model (TBL) for Engineering Students: the best they can get", *International Conference on Educational Technologies and Education 2014*, pp. 102-106, 22-24 Feb 2014, Interlaken, Switzerland
5. S. M. Z. S. Shah, A.W. Umrani, A.A. Memon & **S. M. Z. A. Shah**, "PMEPR reduction for OFCDM using SLM and PTS," *19th IEEE International Conference on Electronics, Circuits and Systems 2012 (ICECS 2012)*, pp.308-311, 9-12 Dec. 2012, Seville, Spain

#### *Oral Presentation*

1. **S. M. Z. A. Shah**, "Design of a Low Cost Structural Health Monitoring System" at the 25<sup>th</sup> IEEEEP All Pakistan Students Seminar, 3 March 2010, Karachi, Pakistan

## **TECHNICAL SKILLS**

### *Programming and system development*

- C (ARM Cortex M4 [ST Microelectronics] TI DSP, TI MSP430, PIC, AVR)
- Assembly (PIC, AVR, 8051)
- Arduino
- Python

### *Simulation and Modeling*

- Matlab and Simulink
- LabVIEW and various toolkits
- Proteus
- LTSpice

## AWARDS & ACHIEVEMENTS

- Sept. 2012 - **Fully funded Commonwealth Shared Scholarship** by the Commonwealth Scholarship Commission in the United Kingdom to pursue one year MSc in Electronic and Electrical Engineering at the University of Strathclyde, Glasgow. United Kingdom. The scholarship covered tuition fees, air travel and living stipend.
- Sept. 2013
- Jan 2011 **Silver Medal** for standing first during course of studies for B. Engg. degree.
- Dec. 2006 - **Merit Scholarship** by Mehran University of Engineering & Technology, during the four year BEngg. degree.
- Dec. 2009

## PROFESSIONAL ACTIVITIES & MEMBERSHIPS

- Sept. 2013 - Incharge  
present Advanced Computer Applications Laboratory,  
Department of Electronic Engineering,  
Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan
- Sept. 2010 - Incharge  
Sept. 2012 Basic Electronics Laboratory,  
Department of Electronic Engineering,  
Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan
- Jan. 2012 - Member, Institute of Electrical and Electronic Engineers, USA  
present
- June 2012 - Member, Institution of Engineers, Pakistan  
present
- June 2010 - Registered Engineer, Pakistan Engineering Council  
present

## LANGUAGES

Fluent in English, Sindhi and Urdu. Basic understanding of French.

## EXTRACURRICULAR ACTIVITIES

Cycling, Volunteer work, Reading, Travelling

## REFERENCES

- MSc. Supervisor - Professor Dr. - Email: -@strath.ac.uk  
University of Strathclyde, United Kingdom.
- Dean FEECE - Professor Dr. - Email: -@admin.muett.edu.pk  
Mehran University of Engineering and  
Technology, Pakistan.
- Chairperson - Professor Dr. - Email: -@admin.muett.edu.pk  
Mehran University of Engineering and  
Technology, Pakistan.