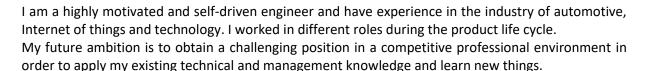
AHMAD WAQAS KHILJI

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Work Experience

08/2018-Present

Infineon Technologies, Munich Requirement and Verification Manager https://www.infineon.com/



- Responsibilities Requirements Management and Verification Activities
 - Manage the requirements throughout the product life cycle.
 - Provides the requirements Management plan.
 - Provides the product Verification plan.
 - Ensure the quality of the requirements.
 - o Drive, Moderates requirements reviews.
 - o Ensure the requirements traceability.
 - o Ensure the defined processes followed.
 - o Reviews all verification results and follow up.
 - Support the project Manager in audit assessments.

12/2016-07/2018

BLOKS.GmbH. Munich Test Automation Engineer http://bloks.de/



- Responsibilities includes Building the test automation infrastructure for the embedded devices using the HIL (hardware in loop)
 - Creating the test plan
 - Creation of the test cases in Vteststudio and python.
 - Design the test Jig to stimulate the embedded devices.
 - Integrate the test jig with VTsystem (CANoe)
 - o Integrated the Vector tool (Vteststudio, VTsystem)

04/2016-06/2016

Bosch SensorTec, Reutlingen

Internship, System Level testing of Mobile Sensors

https://www.bosch-sensortec.com/

- Responsibilities includes system level testing of mobile sensors (Accelerometer, Gyroscope, Gravity etc) using a black box methodology.
 - Creation of test cases using python.
 - Modified the existed framework in python.
 - Automation the framework using Jenkin.
 - Bug fixing in the framework.
 - o Automated report generation.
 - Use python to automatically generate the compiler warning report.

02/2015-02/2016

Bosch connected devices and solutions, Reutlingen Internship and Master Thesis, Framework for Integration and System Testing for Internet of Things(IoT)

http://www.bosch-connectivity.com

- Design and implement an integration and system level testing framework for embedded devices focusing Internet of things Products. It involves the Evaluation, Design, Development and Testing activities.
 - Ported Cortex M0 tool chain in linux environment which includes the compiler, debugger, flasher using the make utility.
 - Evaluate the existing unit testing framework in python (Unittest,pytest,nose).
 - UML design of the testing framework.
 - o Implemented the design of the framework in python.
 - Design and Implemented the coordination protocol between the embedded device, TestBed and the framework.
 - o Integrate the framework with continuous integration server Jenkins.
 - Write flashing utility for embedded devices.

07/2013-10/2013 07/2014-10/2014

Infineon Technologies, Munich WorkStudent

http://www.infineon.com/

- Responsibilities include in the requirement engineering domain and Meta modeling for VHDL code generation of chips using the metagen framework.
 - o Worked on requirement engineering tool Visure.
 - o Worked in python to fill the Visure fields with excel sheet data.
 - Design the meta model using UML classes.
 - o Fill the model with data.
 - Create corresponding class tables in Alchemy database to store data.
 - Use metagen framework to generate the code based on the UML diagram.

01/2013-06/2014

Technical University Ilmenau Research Student (HIWI)

http://www.tu-ilmenau.de/

- Design, implement and test a software using Matlab to solve a complex problem to identify the bacteria growth inside a microscopic image.
 - Image pre-processing.
 - Image segmentation.
 - Region of Interest.
 - o Hough Algorithm and data extraction

02/2010 - 06/2012

Teletaleem (Pvt) Limited, Islamabad, Pakistan Software Design Engineer

http://www.teletaleem.com/

- Teletaleem is a online E-learning platform for remote education. Its main features are audio, video conferencing, Whiteboard and document sharing support based on flash technologies.
 - o Active team member from project design till implementation
 - o Implemented whiteboard functionality.
 - Design and implemented message passing protocol at backend.
 - o Performed unit, integration and system testing.

09/2007 – 01/2010 Comcept (Pvt) Limited, Islamabad, Pakistan

Firmware Design Engineer http://www.com-cept.com

- Worked as an embedded engineer on projects CNG dispenser and GSM payphone.
 - o Involved in the requirement analysis process.
 - o Team member in the system design and implementation process.
 - o Worked on ARM, AVR, TI, PIC based microcontroller.
 - o Responsible for rapid prototyping.
 - Verification of PCB according to the schematics.
 - o Responsible for unit, Integration and system testing.

Education

2012 - 2016 Technical University of Ilmenau, Germany

MSc: Research in computer and system Engineering.

2003 –2007 COMSATS University of Science and Technology Islamabad, Pakistan

BSc Computer Engineering

Skills

Programming: Javascript, Java, Embedded C, C, C++, Python

Test Methodology: Test Automation, HiL, SiL, Blackbox tesing, Whitebox Testing, Experience based

Industry Knowledge: Automotive, IoT, Technology, Embedded systems, Web 2.0

Testing Tools: CANoe, VTsystem, selenium, Cypress testing framework, Tessy, I-system

Requirements tools: JAMA, Visure, code Beamer **Microcontrollers:** AVR, PIC, LPC(ARM), Cortex M0,8051, TI **Protocols:** TCP, UDP, HTTP, HTTPS, FTP

Others: Git, Jenkins, Jira, Confluence, Shell Scripts, Cmake, MySql

Platform: Windows, Linux, RTOS

Trainings and Seminars

2019	Requirements Quality
2018	Jama traning (Requirements Management Tool)
2017	CANoe Training (VTsystem, Vteststudio)
2016	ISTQB software testing Certification foundation level

Achievements

- Running a YouTube Channel
- Elected as captain of university cricket team in 2006.
- Participated in 3rd international workshop FIT 2005
- Participated in all Pakistan electronic exhibition 2005 UET Lahore (4th prize).
- Awarded best Urdu Debater for 10 years in school.