

## AHMAD WAQAS KHILJI



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### Summary

I am a highly motivated and self-driven engineer and have experience in the industry of automotive, Internet of things and technology. I worked in different roles during the product life cycle. My future ambition is to obtain a challenging position in a competitive professional environment in order to apply my existing technical and management knowledge and learn new things.

### Work Experience

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|-----------------|---|
| 08/2018-Present | <b>Infineon Technologies, Munich</b><br><b>Requirement and Verification Manager</b><br><a href="https://www.infineon.com/">https://www.infineon.com/</a><br> <ul style="list-style-type: none"><li>- Responsibilities Requirements Management and Verification Activities<ul style="list-style-type: none"><li>o Manage the requirements throughout the product life cycle.</li><li>o Provides the requirements Management plan.</li><li>o Provides the product Verification plan.</li><li>o Ensure the quality of the requirements.</li><li>o Drive, Moderates requirements reviews.</li><li>o Ensure the requirements traceability.</li><li>o Ensure the defined processes followed.</li><li>o Reviews all verification results and follow up.</li><li>o Support the project Manager in audit assessments.</li></ul></li></ul> |
| 12/2016-07/2018 | <b>BLOKS.GmbH, Munich</b><br><b>Test Automation Engineer</b><br><a href="http://bloks.de/">http://bloks.de/</a><br> <ul style="list-style-type: none"><li>- Responsibilities includes Building the test automation infrastructure for the embedded devices using the HIL (hardware in loop )<ul style="list-style-type: none"><li>o Creating the test plan</li><li>o Creation of the test cases in Vteststudio and python.</li><li>o Design the test Jig to stimulate the embedded devices.</li><li>o Integrate the test jig with VTsystem (CANoe)</li><li>o Integrated the Vector tool (Vteststudio,VTsystem)</li></ul></li></ul>   |
| 04/2016-06/2016 | <b>Bosch SensorTec, Reutlingen</b><br><b>Internship, System Level testing of Mobile Sensors</b><br><a href="https://www.bosch-sensortec.com/">https://www.bosch-sensortec.com/</a> <ul style="list-style-type: none"><li>- Responsibilities includes system level testing of mobile sensors (Accelerometer, Gyroscope, Gravity etc) using a black box methodology.<ul style="list-style-type: none"><li>o Creation of test cases using python.</li><li>o Modified the existed framework in python.</li><li>o Automation the framework using Jenkin.</li><li>o Bug fixing in the framework.</li><li>o Automated report generation.</li><li>o Use python to automatically generate the compiler warning report.</li></ul></li></ul>   |
| 02/2015-02/2016 | <b>Bosch connected devices and solutions, Reutlingen</b><br><b>Internship and Master Thesis,</b><br><b>Framework for Integration and System Testing for Internet of Things(IoT)</b>   |

<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.
  - o Ported Cortex M0 tool chain in linux environment which includes the compiler, debugger , flasher using the make utility.
  - o Evaluate the existing unit testing framework in python (Unittest,pytest,nose).
  - o UML design of the testing framework.
  - o Implemented the design of the framework in python.
  - o Design and Implemented the coordination protocol between the embedded device, TestBed and the framework.
  - o Integrate the framework with continuous integration server Jenkins.
  - o 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.
  - o Design the meta model using UML classes.
  - o Fill the model with data.
  - o Create corresponding class tables in Alchemy database to store data.
  - o 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.
  - o Image pre-processing.
  - o Image segmentation.
  - o 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.
  - o 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.
  - o Verification of PCB according to the schematics.
  - o Responsible for unit, Integration and system testing.

## Education

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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

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**Programming:** Javascript, Java, Embedded C, C, C++, Python  
**Test Methodology:** Test Automation, HiL, SiL, Blackbox testing, 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

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

## Achievements

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