Curriculum Vitae
PERSONAL INFORMATION

Saqib Javed

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Sex Male | Date of birth 16/10/1994

PERSONAL STATEMENT

I want to outstrip my skills and knowledge that I have gained during my studies. I wish for a rewarding and challenging work as an engineering student that utilizes my skills, energy and achievements, and give opportunity for professional growth.

WORK EXPERIENCE

07/2019 - 12/2019

Research: Hardware/Software Optimization of Convolutional Neural Networks
BMW / Technical University of Munich (TUM) - Munich, Germany
- Knowledge Distillation.
- Ensembling methods and multi task learning
- Object Detection and Image Segmentation
- Binary Quantization and optimizing inference.

Business or sector Research and Development

23/09/2019 - 04/10/2019

Summer Camp: Autonomous Drones for Sustainability
Ferien-Akademie, Sarntal, Italy
- Drone fleet Prototype to monitor the pollution in lake.
- Computer Vison and Machine Learning tools were used

Business or sector Research and Development

03/2019 - 06/2019

Intern - Software Test Engineering - Automation
General Electric - Munich, Germany
- Development of Automated Testing Framework
- Usage of Squish and Selenium to automatically test the software.

Business or sector Research and Development

10/2018 - 12/2018

Intern IOT- Smart Embedded Systems (Research Internship)
Siemens - Munich, Germany
- Automation using Machine Learning, configurable by Web APIs.
- Trained Model using Image Processing, TensorFlow and Keras.
- (Parallel systems) Raspberry Pi and Nano box inter process communication.

Business or sector Research and Development

03/2018 - 08/2018

Intern Application Debugger
Intel - Munich, Germany
- Development of Intel GDB. (Embedded Development)

Business or sector Semiconductor Industry

11/2018 – 06/2019

Tutor for VHDL- Lab
Technical University of Munich, Germany

EDUCATION AND TRAINING

10/2017 --- present

Master of Science in Communications Engineering (MSCE)
Technical University of Munich (TUM), Munich (Germany)

CGPA: 1.4/1
(3rd in class)

09/2013 --- 06/2017

Bachelor of Engineering in Electrical Engineering (BEE)
National University of Sciences and Technology (NUST), Islamabad, Pakistan

CGPA: 3.59/4
(Top 15% of class)

Curriculum Vitae   Saqib Javed

PERSONAL SKILLS

Computer skills (Programming languages)
- Excellent command on MS Word, Excel, PowerPoint and Outlook.
- **Programming languages**: Python,C, C++,C#, Assembly, MATLAB and VHDL
- **Softwares / Frameworks / Libraries**: Tensorflow, Keras, Open CV, Git, Jenkins, Flask RESTful, Xilinx, Squish, Selenium, Cadence, PSpice, microC Pro, Atmel Studio, Advance Design System(ADS), ModelSim, Proteus, Keil, MASM ,AutoCAD, Labview , Adobe Photoshop, Code composer studio.
- Good Knowledge of OS (Linux, Windows).
- Basic Knowledge of Mac, Android.

Languages
- English, German, Urdu

Organisational / managerial skills
- Leadership skills
  (Head of Events in NUST-SEECS sports society, was responsible for team of 10 people.)
  (NUST-SEECS Table Tennis team Captain leaded team of 5 players (2016-2017))
- Organization and management skills
  (Organized many Engineering competitions, fun fairs in University and College)
- Campus Ambassador Tectiq's 2015.

Job-related skills
- A quick learner and Good command of resolving issues (Worked as Projector Mentor for junior students in NUST-SEECS)

Interests
- Football, Cricket, Table tennis, Hockey (Leisure activities)
- Event Management, Social Work.
- E-gaming (Leisure activities)
- Travelling and Reading

Community Involvement (Voluntary Work)
- Plantation Drive
- Organized Twin Cities Table Tennis Tournament.
- Raised funds for water cooler installation for needy people.
- Project Assistance Mentorship for juniors in University.

ADDITIONAL INFORMATION

Projects

Bachelor's Thesis
- Obstacle Detection and Avoidance for Visually Impaired using sensor fusion technique implemented on Raspberry pi.(Stereo Camera and Ultrasonic Sensor)

Semester Projects
- Semantic Segmentation using Fully convolutional neural networks implemented on Raspberry PI.
- Securing Communication between Broker and subscriber (MQTT protocol) using AES encryption.
- AES encryption implementation on FPGA using VHDL.
- Snake Game in Object Oriented Programming course using C/C++.
- Huffman encoder in Data Structures and Algorithms course using C/C++.
- Automatic House doors and light control system in Digital logic design.
- Automated Car parking system in Microprocessor.
- 8-bit shift register using Cadence in VLSI.
- Extended Automated Car Parking system in Embedded System and Design.
- Designed and Fabricated Band Pass Filter on microstrip in Microwave Engineering.

Workshops
- Workshop on EEG & Neuro-Informatics by IEEE SEECS.

Honours and awards
- Included in Top 50 candidates on merit from all over Pakistan in National Science Talent Contest NSTC.
- 76th position out of 8533 participants from all over Pakistan in International KANGAROO Mathematics Contest (IKMC) 2008.
- Participated in Space Model Display Competition held at Institute of Space and technology during World Space Week (04-10, October 2011).
- 2nd position in HSSC in College. (IMCB F-7/3)
- 4th position in SSC in College. (IMCB F-7/3)
- Federal Board Table tennis champion 2013. (IMCB F-7/3)
- 3rd position in Federal Board Hockey Tournament 2013. (IMCB F-7/3)
- Captain SEECS Table Tennis Team. (2016)
- Inter NUST Table Tennis champion 2014. (NUST-SEECS)
- Best player of inter-batch sports tournament 2015. (NUST-SEECS)
- Two times SEECS Futsal Champions. (2015,2016)
- Won National Table Tennis tournament held at FAST in 2014.
- Runners-up Inter-NUST Table Tennis Tournament 2016(NUST-SEECS)
- Two times Runners-up SEECS Table Tennis Tournament. (2015,2016)