**CURRICULUM VITAE**

**Mohammad Dawud Ansari**

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**Educational Qualification:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **Qualification** | **Institute** | **Percentage/CPI** |
| 2015 - Now | Masters in CS – 2nd Semester | TU Kaiserslautern, Germany | Check below |
| 2008-2012 | B.Tech (Computer Engineering) | Jamia Millia Islamia, India | 7.96/10 |

**Masters Specialization and Grade Details:  
Specialization Chosen:** Augmented Vision (in Intelligent Systems)

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| --- | --- | --- | --- |
| **Subject** | **Credits** | **Grade** | **Average** |
| 3D Computer Vision | 4 CP | 1.0 | 1.28  (considering 8 subjects with 4 CP) |
| Computer Vision: object and people tracking | 4 CP | 1.0 |
| Applications of Artificial Intelligence | 4 CP | 1.0 |
| Artificial Neural Networks | 4 CP | 1.0 |
| Intelligent User Interfaces | 4 CP | 1.0 |
| Embedded Intelligence | 4 CP | 1.3 |
| Autonomous Mobile Robots | 8 CP | 2.0 |

**Technical skills:**

* **Languages known:** C, C++, Java, Jsp, servlet, python, OpenCV, Android, OpenGLES 2.0, GLSL
* **Scripting languages known:** HTML, Css, ajax, jQuery, PHP, Cake php, Bootstrap
* **Applications / IDE tools:** visual studio, eclipse, photoshop, blender, Matlab.

**Research Paper:**

**Journal:** International Journal of Computer Applications   
**Title:** Design and Implementation of Autonomous Car using Raspberry Pi   
**Volume:** 113 **Number:** 9 **Pages:** 22-29  
**Link:** <http://www.ijcaonline.org/archives/volume113/number9/19854-1789>  
  
**Work experience:**Worked on Android Solution, Framework, Application and 3D UI Component development for Samsung smart phones using following technologies: Android, JNI, AIDL, C++, and OpenGLES as Software Developer in Samsung India Electronics from June 2012 till October 2014.

**Onsight Experiences:**

* 4 months as “Android Developer” in Samsung, Headquarters, South Korea
* From June’2015 till present “Research Assistant” in DFKI, Kaiserslautern, Germany

**Projects:  
Project title:** Precise RGB-D Odometry **Role:** Researcher at DFKI (Kaiserslautern, Germany) **Technology used:** C++, OpenCV **Description**: Using Kinect sensor. Depth camera provides the 3D information about the scene and iterative based transformation estimation is used to align the point cloud to find 6 dof of camera for augmentation and odometry in a robotic platform.

**Project title:** Driverless Car: check at <http://www.dawudmaxx.in/profile/dawud/>  
**Technology Used:** C++, OpenCV, Python, RaspberryPi Rev B+, L293D Motor Controller  
**Description:** This is an embedded project in market Raspberry Pi rev B+ is programmed to use the Pi camera to facilitate computer vision using OpenCV api, and thus further image processing is done to extract information like: lane of road and moving obstacles on the road. This provides necessary command to the motor controller to move the car without manual assistance.

**Project title:** Touchwiz Home

**Role:** developer

**Technology used:** Android, OpenGLES 2.0

**Description**: It supports 2D and 3D view rendering in Samsung latest smart phones. 3d launcher was developed with the android and using OpenGL ES 2.0 for the shader effects.

**Project title:** SPRO - Samsung Process and Resource Optimization (Framework Solution cum App)

**Role:** developer

**Technology used:** Android, Java

**Description**: This project aims to optimize the device performance and memory.

**Project title:** Webclip (3D Widget)

**Role:** developer

**Description**: This is a 3D widget based using OpenGLES2.0 on a Web view that has a functionality of a browser to open any specific webpage.

**Project title:** Cloud based Java Compiler  
**Technology Used:** J2SE, J2EE, Weblogic Server, HTML, CSS, Ajax, jQuery  
**Description:** This was to facilitate a person to run a java code without having to install any java supporting components like JRE or JDK in his local system. It also aims to provide the functionality to run the compiled .class files and see the output of the program over the network.

**Project title:** HPC Clustering using Eucalyptus cloud in Linux  
**Technology Used:** Linux Ubuntu 10.4 PC, Ubuntu 10.04 server, Open MP programs, MPI programs  
**Description:** This project aims to check the HPC efficiency of many nodes connected to a server while running a parallel program in all of them at once. In the process it uses a virtualized environment to achieve a single OS behavior even when multiple systems are connected together with a server.

**Project title:** Multiplayer Snake Game  
**Technology Used:** J2SE, Socket Programming in Java, one PC as Server.  
**Description:** This is a network game where we have a common Arena where every user can control his snake and move it and also he can see other player’s snake too.. One who remains in the Arena for longest is the Winner.

**Certifications / Trainings:**

* Studied Java and Advanced Java for 4 months from Ducat Noida.
* 3 months of training in Advanced Graphics Designing from Microtek, Nepal.
* 54 hrs. Of training in Android and OpenGLES in android in Samsung from an external trainer.
* I have successfully completed B1.1 in Deutsch language course.

**Additional works:**

* Made an Assembler in C, which generates the machine code for any mnemonic code given as an input.
* Developed a clock widget that gets restarted even when task killing apps kills it forcefully in Android.
* Made a working obstacle avoider (robot) in less than a day on a seminar robotics by nuts & voltsusing C by programming an atmega chip.

**Achievements:**

* Selected for DAAD-STIBET scholarship in 2015 for 2 months.
* A research article in Robotics and Computer Vision successfully published and cited.
* Qualified GATE examination in India in 2011.
* Graded as A+ in advanced graphics designing course in Microtek, Nepal in 2005.
* I was one of the scholarship holders of Merit cum Mean Scholarship in India for 4 years during 2008-12.
* Won a gold medal in Zenith Inter School Taekwondo Championship 2001 in Nepal.
* Table Tennis Champion of Kellat hotel, JMI in 2009-2010.

**Position of Responsibility:**

* General Secretary of student committee “Computer Society of India” of Jamia Millia Islamia for the year 2010.
* Designing Team Head of student committee “Computer Society of India” of Jamia Millia Islamia for the year 2011.
* Designing Team Head of Jamia Old Boys Association (JOBA) 2011-12.

I declare that everything mentioned in this CV is correct in best of my knowledge.