**Anshay Agarwal**

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Projects: <https://anshay.github.io/projects>

Certificates: <https://anshay.github.io/certificates>

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**EXPERIENCE**

**GreyScaleAI**

Software Engineer | Bangalore | Feb 2021 – present

* Building complete food inspection solution using X-Ray camera, Computer Vision, Deep Learning
* Developed complete embedded UI – both front-end and back-end with Qt creator
* Fixed more than 35 bugs within just 4 days with implementing new features and testing
* Impelemented client for communication over MQTT
* Reorganized complete code and improved build process using CMake
* Added googletest Testing and glog logging framework

**Nvidia Graphics**

System Software Engineer | Pune | July 2017 – July 2018

* Developed features on Tegra platform; debugging and fixing issues in the Camera Imaging pipeline and overall improvement of Imaging software stack
* Delivered more than 10 critical bug fixes on camera stack including lens shading, Cuda Histogram, etc. which helped in timely delivery of the products

**Defense Research and Development Organization (DRDO)**

Scientist | Dehradun, UK | August 2013 – June 2015

* Worked on reducing the vignette due to lens shading in Thermal Imagers (LREO and MREO) for night vision cameras used in military
* Delivered fixes for bore-sighting, noise and poor focus for Thermal Image enhancement of the images captured with LREO and MREO resulting in significant improvement in image quality
* Designed and constructed a Raspberry Pi based Thermal Imager controller for operating the Thermal Imager from a distance. This in-house development eliminated the need for procuring the controller from an external agency and reduced cost and development time

**North Delhi Power Limited (NDPL)**

Intern | Delhi | May 2011 – July 2011

* Worked on Operation and Maintenance of Grids and learned about towers, cables, SCADA panels, Smart grids and components of a grid

**SKILLS**

C++, Python, DeepLearning, ROS, MATLAB, 3D Modeling (Blender), CMake, OpenCV, PostgreSQL, Qt, Arduino, Coppeliasim(V-rep), Git, OpenVibe, KiCAD, Kotlin (Android Studio)

Familiar with Unity Engine

**EDUCATION**

**MASTER OF TECHNOLOGY (M.TECH.)** Computer Technology

Indian Institute of Technology Delhi (IIT Delhi)

New Delhi | 2017

* Dissertation: Thermal Video Stabilization, which stabilizes a video captured through night vision camera
* Project on Brain Computer Interfacing which involved moving a cursor on the screen using Motor Imagery signals captured via EEG

**BACHELOR OF TECHNOLOGY (B.TECH.)**

Electrical Engineering

Indian Institute of Technology Mandi (IIT Mandi)

Mandi, HP | 2013

* Thesis: Automobile Collision Prevention System
* Founded Robotics Section of IIT and built 1st robot of IIT Mandi from scratch
* Member of Electronics Section
* Recipient of Merit Cum Means Scholarship

**CERTIFICATES / SPECIALIZATIONS**

**TensorFlow Developer Professional Certificate**

Deeplearning.ai

Coursera (Online, 2019-2020)

A grounding to start with TensorFlow, detailing on understanding of loss functions, optimizers, convolutions, LSTM, etc.

**Deep Learning Specialization**

Deeplearning.ai

Coursera (Online, 2018-2019)

Foundations of Deep Learning and understanding of Convolutional networks, RNNs, LSTM, etc

**ACTIVITIES**

* Organized and managed workshop on Mobile Autonomous Robotics at IIT Mandi
* Workshop on Swarm Robotics at Thapar University
* Organized multiple events at Cognizance 2009 at IIT Roorkee

**ACCOMPLISHMENTS**

* GRE Score- 321/340 (170/170 in Quantitative)
* IIT JEE Rank - 3547 (~0.4 million students)
* GATE Rank - 423 (99.998 percentile) in Electronics and Communication
* Among top 0.1% students of India in XII board exams (AISSCE) in Mathematics (100%) and Computer (99%)

**PSYCHOMETRICS**

* MBTI INTJ-T: The Architect, Analyst, Constant Improvement
* ENNEAGRAM 6w5: "The Guardian = Loyalist wing Investigator"
* VIA CHARACTER STRENGTHS: 1 Creativity, 2 Honesty, 3 Perspective, 4 Good Judgment, 5 Curiosity

**ADDITIONAL COURSES**

**Robotics**

* Foundations of Robot Motion
* Robot Dynamics
* Robot Kinematics
* Swarm Robotics

**Neuroscience**

* Fundamental Neuroscience for Neuroimaging
* Medical Imaging technologies: MRI, fMRI, PET, CT, Ultrasound, XRay
* The Brain and space
* Synopses, Neurons and brains