

# Ashish Singh

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Pursuing Graduation in Bachelor of Technology from Maharaja Surajmal Institute of Technology , GGSIPU

## EDUCATION

Degree / Grade	Name of Board / University/Institution	Score
B.Tech ECE (2017-2021)	Guru Gobind Singh Indraprastha University	8.657/10 CGPA
XII <sup>th</sup>	CBSE ( Delhi )	80.2% (2017)
X <sup>th</sup>	CBSE ( Delhi )	93.1% (2015)

## PERSONALITY TRAITS

- Strong coordination, teaming and communication abilities.
- Ability to work under pressure and time constraints.
- Very proactive and innovative with excellent learnability , enthusiastic and competent professional.

## EXPERIENCE

### → Project based training in ESD using ATMEL 89S52

June 2019 - July 2019

#### Tico Institute of Embedded Technology

B1/628, 3rd floor , Main Najafgarh Road, Metro Pillar 570, Janakpuri, Delhi, 110058

## ACHIEVEMENTS

- Received an award for scoring the highest marks in Computer Science in class XII . (97/100)

## PROJECTS

### → Android Controlled Robot using 8051 Microcontroller

July 2019

In this project I built an Android Phone controlled robot using 8051 microcontrollers and Bluetooth module. The robot is designed using DC motors and the direction of DC motors will be controlled by the commands received from the android application.

## → Design Of Digital Differentiator Using Teacher Learner Based Optimization Algorithm

October 2020

In this project a novel population based optimization technique called teacher learner based optimization (TLBO) is applied to FIR digital differentiator designing. This algorithm is inspired by the teaching learning procedure in the class- room and is free from algorithmic specific parameters and slow convergence. To prove the validity of the proposed algorithm square error (SE), which is the square of the difference between the output of an unknown system and the known system, is considered as the performance measure. MATLAB simulation is done by taking two benchmarked systems and computed results are matched with two optimization techniques namely, Differential Evolution (DE), Particle Swarm Optimization (PSO). Simulated results clearly reflect the efficiency of the applied algorithm.