

# Unnikrishnan Menon

Electrical and Electronics Undergrad

An entity that can convert caffeine to code.



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## WORK EXPERIENCE

### Technical Head of Electrical Department roboVITics, the official robotics club of VIT

02/2019 – Present

### High Power Circuit Designer

Team Orcus, Combat Robotics

07/2018 – Present

The Team designed a 120 lbs combat robot that has performed well in International RoboWars

#### Achievements

- Finished in top 7 internationally at RoboWars, Techfest'18, IIT Bombay.
- Secured third position in RoboWars, Kurukshetra'19, Anna University.

### Core-Committee Member

roboVITics, the official robotics club of VIT

12/2017 – 02/2019

#### Achievements/Tasks

- Successfully completed multiple robotics projects involving Machine Learning, Computer Vision, Artificial Intelligence, IoT etc.

## EDUCATION

### B.Tech in Electrical and Electronics Engineering

Vellore Institute of Technology, Vellore

07/2017 – Present

Current CGPA(3 semesters): 8.62

### Class 12 Board Examination (CBSE): 94.2%

Summer Fields School, New Delhi

### Class 10 Board Examination (CBSE): 10 CGPA

Summer Fields School, New Delhi

## SKILLS

Machine Learning

Artificial Intelligence

Cryptography

Astrophysics

Python

Competitive Coding

Combat Robotics

Electronics

Internet of Things

Robotics

C/C++

MATLAB

Computer Vision

Back-end Development

Socket Programming

## ACHIEVEMENTS

### 6 Near Earth Object Observations (All India Asteroid Search Campaign)

I used a software called Astrometrica to detect potential celestial objects and I ended up spotting 6 Near Earth Objects(NEOs)

### Winner of Developer's Sprint of Code Hackathon by CodeChef (02/2019)

Secured the First Position in this 36 hr Hackathon. I Worked on the hardware and a facial emotion recognizer for an electoral system that eliminates majority of problems in the existing system.

### Quora Top Writer 2018 (01/2018 – Present)

Got the coveted Top Writer's Quill on my Quora profile for writing quality technical content. Got New York Time's Subscription and a t-shirt as a reward from Quora.

## PERSONAL PROJECTS

### Autonomous Rubik's Cube Solver (02/2018 – 04/2018)

- Developed an algorithm in under 800 lines of C++ code that predicts the correct moves to solve a scrambled 3x3x3 Rubik's Cube.

### Self Learning Crawler (12/2018 – 02/2019)

- This bot combines the Q Learning algorithm with a robotic arm to come up with an optimum policy for moving forward.

### AI Development for Atari Games (10/2018 – Present)

- Deployed advanced Reinforcement Learning algorithms such as Deep Q Learning in various Video Game environments.

### Comprehensive Electoral System (02/2019 – 02/2019)

- Secured First Position in DEVSOC'19

### Prepaid Energy Credits based Power Distribution System (01/2019 – 02/2019)

- ML based algorithm for predicting power usage in a common household.

### RSA Encrypted Online Password Storage (05/2019 – 12/2019)

- This code can be used to save your passwords or other confidential data remotely to a server without any worries of it getting hacked.

### Tensorflow Chatbot using RNNs and LSTMs (05/2018 – 06/2018)