

## Nirmal Jeffrey . B

B.E , Mechanical Engineering,  
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### Career Objective

Mechanical engineer with a passion for designing and building things which creates a pleasant experiences for users through not just effective but memorable and enjoyable user-entered designs.

### Education

2014-2018	Thiagarajar College of Engineering, Madurai 7.32/10 Bachelor of Engineering - Mechanical Engineering
2014	S.R.V. Matriculation Higher Secondary School Higher Secondary Examination 96.6% Tamil Nadu Board of Secondary Education
2012	St.James Matriculation Higher Secondary School Secondary Examination 94.6% Tamil Nadu Board of Secondary Education

### Industrial Trainings & Workshops

1 day	TVS Brakes India Ltd, Chennai • Quality Management Systems.
1 day	Tractors and Farm Equipment Ltd, Madurai • Basics of factory layout and its functions
1 day	Vikram Sarabhai Space Centre(ISRO), Trivandrum
1 day	Attended a workshop on “Aero-Modelling” at NIT,Trichy.
1 day	Attended a workshop on “Advancements in Automobile Braking Systems” at GCT, Coimbatore.
2 days	Attended a workshop on “Quality through Innovation” at College of Engineering- Guindy,Chennai.
6 days	Attended a workshop on “FEAST <sup>SMT</sup> ” software by ISRO at Thiagarajar College of Engineering,Madurai

### Technical Skills

CAD softwares	Fusion 360, CREO
Programming	Java, HTML, CSS, SQL
Development Frameworks	Arduino, Processing
Design and Multimedia	Adobe XD, Fritzing, Paperuka

## Projects

Jan - May'18	<b>Multi-Modal Vehicle( 8<sup>th</sup> Semester)</b> <ul style="list-style-type: none"> <li>Multi-modal vehicle is capable carrying out rescue operations in air, land and water .</li> </ul>
Jan - May'18	<b>Volleyball Spike Trainer ( 8<sup>th</sup> Semester)</b> <ul style="list-style-type: none"> <li>Volleyball Spike Trainer is a device that assists the volleyball players to improve their attacking, blocking and defensive skills without the help of a setter.</li> </ul>
Jan - Feb'17	<b>Infrared Head Tracker ( 6<sup>th</sup> Semester)</b> <ul style="list-style-type: none"> <li>Infrared Head tracking uses cap and 3 infrared LEDs, 2 mounted on the brim of the cap, and one near the top which is powered by a battery. IR camera monitors a user's head position and orientation to give an immersive experience in virtual environments.</li> </ul>
Jun - Aug'16	<b>Car Simulator ( 5<sup>th</sup> Semester)</b> <ul style="list-style-type: none"> <li>The aim of the project is to develop a low cost driving simulator that provides training to improve driving skills of budding driver .</li> </ul>
Jan - Mar'16	<b>Thermoelectric Flashlight ( 4<sup>th</sup> Semester)</b> <ul style="list-style-type: none"> <li>The basic principle of thermoelectric flashlight is peltier effect. This flashlight uses peltier tiles which convert heat into energy using the temperature difference between person's hand and the ambient air.</li> </ul>
Jun -Jul'15	<b>Manual Scoreboard ( 3<sup>rd</sup> Semester)</b> <ul style="list-style-type: none"> <li>Manual scoreboard is a seven segment display which is made of door hinges and plywood .</li> </ul>
Jan - Feb'15	<b>Line Marker ( 2<sup>nd</sup> Semester)</b> <ul style="list-style-type: none"> <li>Line Marker is built using pvc pipes, window screens and bits of plywood. It is used in our college to mark lines in Volleyball, football, hockey, track and field.</li> </ul>
Aug - Dec'14	<b>Bluetooth controlled Arduino Bot ( 1<sup>st</sup> Semester)</b> <ul style="list-style-type: none"> <li>The bot is controlled through android smartphone . This project uses arduino uno, DC motors, and a bluetooth module which is powered by a rechargeable battery.</li> </ul>

## Additional Information

2016-2017	Head of Innovation- Yukta Racing(Go-Kart team of Thiagarajar College of Engg, Madurai).
2014 - 2018	Active Member of <b>Society of Automobile Engineers(SAE)</b> .
2017 - till now	Educator at Unacademy - an online learning platform.
2018	Awarded <b>Google India Challenge Scholarship</b> for frontend development nanodegree by Udacity.

Hobbies include reading, teaching, and travelling.