



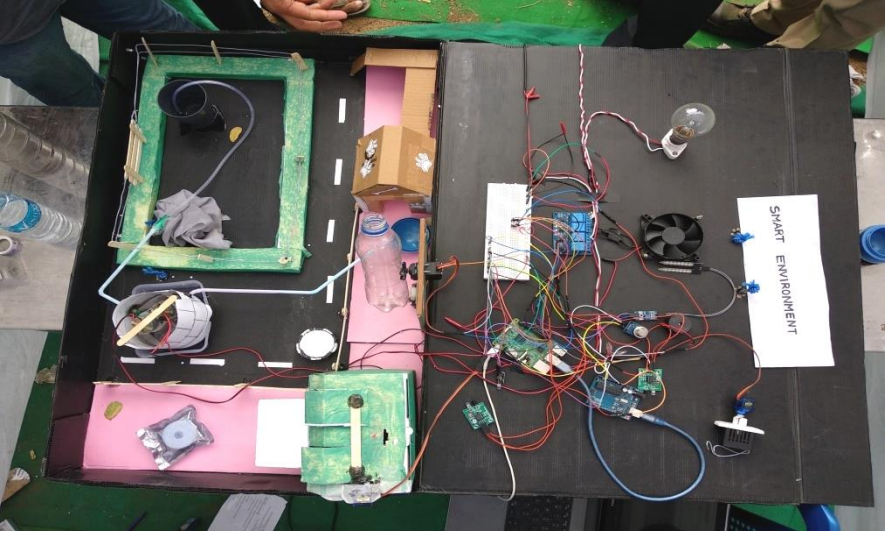
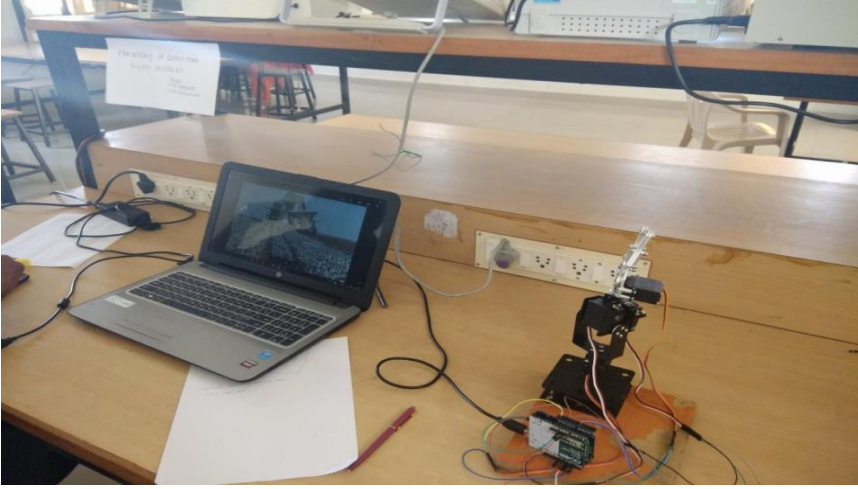
**LIST OF PROJECTS COMPLETED FOR THE YEAR 2017-18**

	<b>Title of the project</b>	<b>Outcome in terms of product / process development</b>	<b>Patent filled if any, Socially/Economically Relevance</b>
1.	<b>Design and fabrication of HHO Jet Engine for Two Wheeler</b>	<ul style="list-style-type: none"> <li>• Fabricated the HHO gas fuel generator and it is producing appreciable amount of HHO; Product development for Two Wheeler – run by Jet Engine with HHO as fuel;</li> <li>• Selected for Incubation at Veltech University, Chennai – MSME Business Incubator.</li> </ul>	<ul style="list-style-type: none"> <li>• Socially relevant since it will be helpful for public;</li> <li>• Economically viable as the fuel cost is less;</li> <li>• Eco-friendly and economically affordable to every class of the Public;</li> <li>• In the process of Patent filing – exploratory searching of patentable product.</li> </ul>
2.	<b>Design of Overdrive enhancer to Boost Engine Performance</b>	<ul style="list-style-type: none"> <li>• Test rig for over Drive enhancer is designed;</li> <li>• Testing of the rig completed;</li> <li>• The vehicle performance and mileage improved.</li> <li>• Selected for Incubation at Veltech University Chennai – MSME Business Incubator.</li> </ul>	<ul style="list-style-type: none"> <li>• Socially relevant since it is helpful for transport Vehicles – Two wheelers, auto-rikshaws to boost the engine’s performance;</li> <li>• In the process of Patent filing – exploratory searching of patentable product.</li> </ul>
3.	<b>Cyclo-generator /Energy Loop Generator for Charging small gadgets</b>	<ul style="list-style-type: none"> <li>• Designed the prototype model for the Cyclo-generator;</li> <li>• Tested for charging and powering up the smart phones and laptops;</li> <li>• Selected for Incubation at Veltech University, Chennai– MSME Business Incubator.</li> </ul>	<ul style="list-style-type: none"> <li>• Socially relevant since it is useful for charging small gadgets and smart-phones;</li> <li>• In the process of Patent filing – exploratory searching of patentable components.</li> </ul>

<p>4.</p>	<p><b>Development of Smart Environment for Smart City Application</b></p>	<ul style="list-style-type: none"> <li>• <b>Prototype model developed for Smart environment with Smart device control for AC, light fan, Smart farming, Smart feeding, LPG gas/ alcohol / toxic gas detection, Smart dust bin with location information, etc.</b></li> <li>• <b>Received Best project Award in ELECTROTHON – a State level contest, organized by Andhra Pradesh Government.</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Socially relevant since it can be used for smart-city, smart buildings and smart municipality management, etc;</b></li> <li>• <b>In the process of Patent filing – exploratory searching of patentable components.</b></li> </ul>
<p>5.</p>	<p><b>Intelligent Robotic Arm for Industry Application</b></p>	<ul style="list-style-type: none"> <li>• <b>Prototype model developed for Robotic arm with 6 DOF and intelligent sensing;</b></li> <li>• <b>Tested for various kinds of soft and hard objects.</b></li> <li>• <b>Received National Best Project award in Innovative Project contest-2018, organized at KIIT University, Bhubaneswar.</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>It can be used for Industry applications for handling various objects;</b></li> <li>• <b>In the process of Patent filing – exploratory searching of patentable components.</b></li> </ul>

## PROTOTYPE MODELS OF THE IEDC PROJECTS : 2017-18

<b>Title of the project</b>	<b>Prototype Model</b>
1. Design and fabrication of HHO Jet Engine for Two Wheeler	
2. Design of Overdrive enhancer to Boost Engine Performance	
3. Cyclo-generator /Energy Loop Generator for Charging small gadgets	

<p><b>4. Development of Smart Environment for Smart City Application</b></p>	
<p><b>5. Intelligent Robotic Arm for Industry Application</b></p>	

**SUMMARY OF THE PROGRESS REPORT ( FOR TWO YEARS)**

<p><b>1.</b></p>	<p><b>Total number of projects supported so far</b></p>	<p><b>10 (Ten Projects)</b></p>
<p><b>2.</b></p>	<p><b>Total fund provided till date</b></p>	<p><b>21.3 Lakhs</b></p>
<p><b>3.</b></p>	<p><b>No. of Patents filed by students</b></p>	<p><b>1 Patent Filed;</b> <b>5 patent filing – In process</b></p>
<p><b>4.</b></p>	<p><b>No. of companies / Starts up Set up by Students</b></p>	<p><b>3 companies / start-ups – in process</b></p>

**IEDC – Convener  
(Prof. R.Mariappan)**