

AKILAN V (15M207)

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▪ **CAREER OBJECTIVE :**

To apply the **engineering knowledge** effectively for the increased **productivity** of an organization and improve the **practicality** of my theoretical knowledge for the mutual benefits.

▪ **EDUCATIONAL QUALIFICATION :**

DEGREE	INSTITUTION	MARKS	YEAR OF PASSING
B.E. Mechanical	PSG College of Technology, Coimbatore	8.72 (till 5 th semester)	2019
Higher Secondary (12 th grade)	SVGV Matriculation Higher Secondary school, Coimbatore	97.5% (Cutoff 199)	2015
Higher Education (10 th grade)	L.E.F. Christian Matriculation school, Mettupalayam.	98.2%	2013

▪ **SKILLS :**

- **SOFTWARES LEARNT** : Basics of CATIA, PTC Creo Parametric 2.0, Arduino
- **COMPUTER PROFICIENCY** : Basics of VBA (Macros), C, C++ : MS office 13.0

▪ **PATENTABLE PROJECT:** (Patent applied)

- **AUTOMATIC TIRE BACKUP SYSTEM:**
 - Redesign of tires in bikes to continue riding at times when tires get flat.
 - The pressure gradient of the tire is utilized for the backup tube to get inflated for a safe ride.
 - The automation is performed by a micro-controller and it is activated by the battery of the vehicle itself and solenoid valve is utilized for the control of the air flow from the compressor
 - The bearing is at the center of the wheel rim to avoid shearing of the tube connection.

▪ **INDUSTRIAL TRAINING:**

S.No	SUBJECT	ORGANISATION	DURATION
1.	Engine assembly of MCV/HCV	Ashok Leyland	3 days
2.	Automotive Electronics	Valeo	1 day
3.	Innovations and norms in the exhaust system	Robert Bosch	1 day

■ AREAS OF INTEREST :

- Strength of materials
- Heat and mass transfer

■ AREAS OF STRENGTH :

- A2A data automation, industrial automation
- Supply chain management in manufacturing industries

■ PROJECT WORKS TAKEN UP:

1. Automatic water pumps:
 - The farmers are having a hard time finding the right time to turn on the pumps at the time of requirements to moisten the soil
 - Automation of water pumps for water supply to agri fields when soil gets dry was proposed as a solution and the same was done using a micro-controller.
2. Ice Flake Machine:
 - The ice flakes are a major need for the food industries for transportation
 - Continuous production of ice flakes from water, at a rate of 100kg/hr for food industries was the demand.
 - It was met by an innovative refrigeration system with a cutter for producing the ice flakes.
3. Smart Wet Grinder:
 - The difficulty faced by a home maker to produce batter for dosa/idly
 - Automation of wet grinders to ease the batter production at household
 - The initial design was proposed and it is being developed as a product
4. IoT integration with ERP systems:
 - The need of real data inputs in the industry to increase the productive management within industry triggered the cause of taking up the project
 - Initial proposals were made to integrate IoT with ERP in the industries to optimize material and work flow.

■ EFFECTIVE PARTICIPATION :

S.No	TITLE	TYPE	DESCRIPTION	DURATION
1.	Vehicle dynamics engineer	BAJA BHAIS (ATV vehicle)	Design for suspension and steering systems	6 months
2.	Campus Manager	KRAZYBEE (Online shop-site)	Promotion of the site's products and helping students with student loans	3 months
3.	Active Member	AIESEC (NGO)	Identifying potential students to send them on exchange programmes	1 month

▪ **LEADERSHIP EXPERIENCE :**

- Worked as an **EVENT COORDINATOR** for various events conducted by the ASME for a duration of one year (MAR 2016-MAR 2017)
- **PLACEMENT REPRESENTATIVE** for the Mechanical department.

▪ **HOBBIES :**

- Reading motivational books (Most favorite – “THE ALCHEMIST” by Paulo Coelho)
- Writing poems on internal perceptions (Most favorite – “THE PUPPET SHOW”)
- Working on application of habitual tasks in daily life

▪ **PERSONAL :**

- DOB: 10/11/1997
- Blood Group: O +ve
- Languages: Tamil, English, Basic German
- Gender: Male

▪ **DECLARATION :**

I hereby solemnly declare that all the above information furnished is true to my knowledge and belief.

Date: _____

Signature: _____