

# Fexen Xavier

'Ittikunnath' (H)  
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*Intends to build a career with a leading and prominent corporate of hi-tech environment with committed & dedicated people; which will help me to explore myself fully and realize my potential. Willing to work as a key player in challenging & creative roles.*

## Positions Held

**Automation Engineer**, UNISYNC TECHNOLOGIES, Vyttila, Kerala.  
(August 2015 - Present)

### Roles & Responsibilities :

- Assistance in Execution of Erection, Commissioning, Testing and Maintenance of various on-site projects at a myriad of work sites including Hospitals, Food Processing, Quarry etc
- Responsible for Design, Selection and Wiring of control panels and associated switch gears permitting operation and automation facilitation
- Involved closely with the Embedded department in design of various Software and Hardware based solutions.

**Graduate Apprentice Trainee in Electronics**, APOLLO TYRES, Kalamassery, Kerala.

(August 2014 - June 2015)

### Roles & Responsibilities :

- Assistance in maintenance of Industrial grade motors (0.5 HP to 1500 HP) and its associated Switch Gears
- Responsible for Documentation in SAP framework
- Provided support into repairs of PCB's of the strain gauge based digital weighing machines

## Project Handled

Project Title SOLAR BATTERY CHARGER WITH INVERTER (ONGOING)

### Roles & Responsibilities :

- Designed a battery charging mechanism
- Implemented MPPT charge control to set appropriate voltage and current

Project Title PID BASED ADAPTIVE VOLTAGE CONTROL USING PLC AND PIC

### Roles & Responsibilities :

- Designed an Adaptive AC voltage control mechanism using PID loop
- Interface PIC12F675 with Delta PLC (Programmable Logic Controller)
- Develop a PWM based AC voltage controller using Thyristor

Project Title SOLAR BASED LIGHT CONTROL

**Roles & Responsibilities :**

- Designed a Buck Conversion based charger
- Implemented LDR based light control

Project Title WATER PUMP CONTROL

**Roles & Responsibilities :**

- Developed an Electro-Mechanical arrangement for pump Control

## **Work Experience**

- Actively engaged in Design, Selection, Cost estimation and Procurement of Automation products for various projects.
- Gained enough knowledge in design of various DC Power Supplies, Solar Panels and Batteries
- Proficient in Back-Tracing and troubleshooting of wiring from most simple wirings (Starter Panels) to Complicated wirings (AMF, LOAD CONTROL Panels)
- Closely involved with the Embedded Departments R&D in developing new software and hardware solutions using common embedded research tools and meters.
- Gained ample knowledge in Design and Testing of software programs for Automation products like PLC, HMI and SCADAs.
- Assisted in Creation, Wiring and Troubleshooting of various control loops in PLCs including models like:
  - Delta Electronics SS, SS2, SE using WPLSoft V2.34 software;
  - Schneider Electrics Twido, Modicon, TM200 series using SoMachine V3.1.1
- Acquired knowledge in Hardware and Software integration for real-time systems
- Strong background in Digital and Analogue hardware design
- Learned Selection, Configuration, Installation & Testing of Variable Frequency Drives (VFDs) like Delta VFD-L, Schneider Electrics Altiware
- Gained knowledge into operations and maintenance of pneumatic actuators (Solenoid Valves (FESTO)) and several sensors like RTD's (PT100), Thermocouples (J-type, K-type), IR proximity sensors
- Acquired sufficient knowledge on 66KV-3.3KV Sub-Station operations during maintenance works

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## Education

- 2014 **B.Tech in Electronics and Communication**, *Mar Baselios Institute of Technology and Science*, MG UNIVERSITY, Kerala.
- 2011 **Diploma in Electronics Production Technology**, *Govt. Polytechnic College, Kalamassery*, KERALA TECHNICAL UNIVERSITY, Kerala.
- 2008 **10th Grade**, *Lobelia Higher Secondary*, STATE SYLLABUS, Kerala.

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## Academic Projects

- **Major Project:** Energy Limiter  
It is a PIC16f877a based project on limiting energy output according to the user requirements
- **Minor Project:** Smart inverter with solar tracking(SIST)  
It is a PIC16f877a based project on improving Energy production from Solar panel by tracking the movement of the Sun

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## Technical skills

- **Programming Languages:** C, Python
- **Compiler's:** PICC, XC8, Gcc
- **Simulation Software:** Proteus, Express PCB, PI Expert
- Electrical Works
- Plumbing Works
- Panel Wiring and Layout Design

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## Subjects Of Interest

- Circuit designing and Debugging
- Embedded Systems
- PIC programming
- Construction Works in Electro-Mechanical fronts
- Automation and Control

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## Personal Details

- Name : Fexen Xavier
- Father's Name : I J XAVIER
- Date Of Birth : 31/05/1993
- Sex : Male
- Current City : Elankunnapuzha, Kerala
- Languages Known : English, Malayalam, Hindi