CV of Engineer

MOHAMED AFLAH K

(B-Tech Engineer, EEE, MEP ,Auto CAD, E CAD, BA)
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CAREER OBJECTIVE

To work in a firm with a professional work driven environment where I can utilize and apply my knowledge, skills which would enable me as a fresh graduate to grow while fulfilling organizational goals.

EXPERIENCE (2 years)

- Worked in TEQMATIQ (The Complete Automation company) (July 2015-August 2017) where I was delegated to do the following responsibilities,
  - **Electrical Designing**: - Evaluates electrical systems, products, components, and applications by designing and conducting research programs; applying knowledge of electricity and materials.
  - **Engineering Supervision: -**Completes projects by training and guiding technicians.
  - **Quality Controller: -** Plans and directs activities concerned with development, application, and maintenance of quality standards for industrial processes, materials, and products.
  - **Electronics lab assistance:-**Design, develop and test equipment. Evaluate and test products. Adjust, test and repair equipment.
  - **Electrical project controller:-**Overseeing and contributing to electrical projects of the organization.

- Worked in Al Ansari Trading Group-Oman where I was directly assigned to following duties,
  - **Electrical Designing:-**Provide the design, specification and co-ordination of electrical services installations
  - **Site Engineer: -**Handling electrical problems or electrical engineering issues at a building, work site or other location.
  - **Site surveyor**: - Inspecting and arranging for the testing of electrical works and assisting and developing the full range of electrical surveying and contract administration services.
  - **Project engineer: -**Development and execution of projects for electrical distribution and transmission system; including the management of engineering and design, standards, and daily projectmanagement.
  - **Asbuilt drawer:-**Keeping the records of the drawings and use it for further changes from the planning and as built**.**

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ACADEMIC CREDENTIALS

	Qualification	**Year**	**University/Institute**	**Grade/Percentage**
	BachelorofTechnology (Electrical & Electronics Engineering)	2015	Calicut University	Completed on (2011-2015)
	Auto CAD, Electrical CAD	2016	Autodesk	2016
	BA English	2016	Kalinga university	Completed on (2013-2016)
	HSE (Computer Science)	2011	Board of HSC,Kerala	76.5%
	High School	2009	Board of HSC, Kerala	85%

IT SKILLS

- Great Experience in **MEP** (**AUTO CAD 2016** and **ELECTRICAL CAD2016)** (With student ID**A160320382**)
- Great Experience in C++
- Great Experience with Visual Basic 6.0
- Expert in computer Assembling.
- Well versed with Microsoft Office and other Excel Based Softwares.
- Completed Diploma in Multimedia (Adobe Packages, Uleed Video studio,etc.)

BEHAVIORAL CHARACTERISTICS

- Commitment to quality and results
- Sincere in attitude, Confident and focused
- Can adjust to any situation
- Friendly but disciplined

ACHEIVEMENTS

- Got Distinction in Higher Secondary level
- Got Distinction in High School level
- College level topper in Puzzle Games and Quiz Competition

PROJECTS AND OTHER WORKS

- **Mini Project (Invisible Electric Fence Using laser beam)**

  Robbery is increasing day by day in our society. One of the most important problems seen these robbery, looting etc. This problem is very commonly evident these days. We provide a security layer around those places which needs to be protected such that the concerned people are alarmed if any robbery takes place. Here a continuous laser beam is made to fall on LDR. This this beam of light falls on LDR after being reflected by mirrors are placed at the corners of the area to be protected thus forming a fence. Any obstacle that comes across the fence will result in a continuous beep by the buzzer thus alerting the concerned people.

- **Main project (Centralised Monitoring System of Distribution Transformer)**

  A new distribution transformer monitoring system which utilizes the existing communication network has low investment and operation costs and is easy to install and use. In this line voltages are fed to step down transformers connected and after rectification (AC to DC) and filtering (noise reduction) are given to ADC channels, which converts analogue electrical pulse to digital format for further processing. Similarly current readings are also taken from the current transformer output. Since current readings are too low, they are passed through an amplifier circuit.

  The amplified values are given to ADC channels for digital conversion process. Oil level and temperature also read from the corresponding sensor outputs. The use of GPRS helps in communication with the control room. The digital values of the voltage levels are continuously monitored in the LCD display module, and are updated frequently in the web page for further verification process.

- **Seminar (Eddy Current Breaking System)**

  An eddy current is a swirling current set up in a solid conductor in response to a changing magnetic field. By Lenz's law, the current swirls in such a way as to create a magnetic field opposing the change. This principle is used in eddy current braking systems. Unlike the conventional hydraulic brakes (CHB) eddy current brakes (ECB) are non-contact type thereby eliminating the friction forces. They are highly efficient than conventional hydraulic brakes in the respect that there is no frictional force, the noise is reduced, as the braking torque varies with speed ECB's produce the smooth braking effect, also they are naturally anti-lock brake systems. However the braking torque generated by ECB's at low speed is insufficient to stop the vehicle. Hence they are generally used as assistive brakes. A finite element model of the circular eddy current brake is formed and is used to study the application of time varying magnetic fields for the improvement of

braking torque. Also the braking torque can be improved by using multiple poles and optimizing their alignment. The optimization is carried out using genetic algorithm considering the comfort and skin effects, as well as the geometric and field dependent factors.

- **Training (KELTRON)**

The report is based on Industrial training undergone at KELTRON EQUIPMENT COMPLEX, Karakulam, Trivandrum - a unit of KELTRON which is an industry under the control of State government of Kerala. It is a Technology Driven Enterprise that manufactures and markets electronic equipment and system for defence, communication, space and industrial applications. KELTRON supports various organizations like INDIAN NAVY, NPOL, DRDO, NPCIL,ONGC, ISRO, POLICE, ELECTION COMMISION, GOVT. DEPARTMENTs.etc.

KELTRON is an appropriate option for getting training in the field of power electronics as they are one of the leading manufacturers of High capacity UPS in India. During the period of 14/06/2014 to 21/06/2014 and 26/06/2014 to 28/06/2014 training familiarization with different divisions of the industry is made, also a brief study is conducted about various products.

A circuit description of a 600kVA UPS was given which is the back bone of KELTRON industry. UPS produced in KELTRON is according to the customers demand and to the best of efficiency. The UPS produced in KELTRON rating from 3kVA to 600kVA are currently produced but the plant is having a capacity to produce up to 1000kVA. Also the facilities for producing chargers and inverters are also present even though works undergone are reduced due to the competitions of private companies. Methodology is based on data collection from both primary and secondary sources. The primary source of data collection includes consultation with top management, interviews with employees, informal talks with workers and through manual observations. The secondary sources of data collection were the annual reports, Departmental reports, catalogues, company brochures etc.

- **Industrial Visit**

- KELTRON KARAKKULAM (TRVM)
- KELL (ANGAMALI)
- VIYYUR SUBSTATION (110 KV)
- TRIPRAYAR SUBSTATION (110 KV)
- OOTY TEA FACTORY

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PERSONAL MINUTIAE

- Gender : Male
- Nationality : Indian
- Marital Status : Single
- Father's Name : Ibrahim Kalathil
- Date of Birth : 16th November, 1992
- Indian Driving licence : B 1284198
- Contact Number : +968-92466501
- Language known : English, Hindi, Malayalam, Arabic (reading & writing)

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge.

MOHAMED AFLAH.K
Ruwi,Muscat