Azhaar Mohideen

*BEng in Electrical & Electronics Engineering*

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***Visa Status :*** Transferable working visa with NOC

***Availability* *:*** Immediate

I am reliable and confident **Electrical, Electronics and Project Engineer** with more than **5 years** of industrial experience, I have respectable expertise and work experiences in areas such as:

* **LV** and **ELV** systems
* CCTV, Access Control systems and Networking
* Building Management System (BMS) and Home Automation
* **Analogue and Digital Electronics design and prototyping**
* **System Design**, Implementation and Maintenance
* **Programming** testing and commissioning

***My Key strengths are:***

* Ability to lead and follow on a team dynamic
* Manage time and complete task under deadline
* Excellent communication skills with clients and technicians
* Ability to explain technical issues to non-technical people

# *Professional Experience*

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| 08-Nov-2018 – 27-Feb-2020Electrical and electronics Engineer, Call Lanka Telecom (Pvt) Ltd.  * Planning security infrastructure and mapping surveillance systems. * Project estimation, labor and cost evaluation. * Installation and implementation * Site survey , preliminary quantity estimation and mapping(AutoCad) * Testing and commissioning * Handover and project closing * R&D * Interface different communications protocols * Build custom security solutions on client request (Facial Recognition, Voice command, Automation, etc.) * Build custom embedded solutions with C, C++, Python and web interfaces. * Create warning, alert and notification systems on client requests. * Annual maintenance scheduling and maintenance * Test and evaluate various new products before launch * Introduction of New Products and New services * Design and production of Power Supply, Lightning Arrestors, Power indicator, etc. * CCTV   + - Pelco: PTZ camera, NVR     - Axis: PTZ IP Camera     - Cisco: Switches, access points and routers     - TP-Link: Switches * Attendance management system configuration, application and handling project handovers * Research and development of design improvements. * Supervision for Installation of Burglar Alarm and security panel.   Home Automation   * **Scene and automation programming** on KNX protocol supported home automation platform such as,  1. Fibaro Home center 2, Lite  * Integrated **KNX actuators**  1. **Philips Hue** Lights and lamps 2. Fibaro wall outlets, switches, etc.  * Integrated **Alexa voice** controls to 3rd party devices via (**HA-Bridge**) application with **raspberry pi**. * **Remote Configuration assistance** for technicians and system fault analysis for clients. * Plan proposed project depending on client requirements  1. Prepare purchasing list 2. Plan wiring and logistics  * During this I also underwent an online **ETS5 course** from KNX and online certification (User ID: 149529)  13-Feb-2018 – 02-Nov-2018Technical and Marketing Engineer, Biomed International Private Limited.  * Analyzers evaluation and testing before purchase. * Maintenance training for in house technicians * Technical demonstration before tender  1. Demonstrations of features and functionalities to Doctors department heads 2. Demonstrations to MLTs of operations 3. Maintenance demos to lab assistants  * Testing Commissioning at site * Analyzers (Brand: Beckman Coulter, USA)  1. Biochemistry analyzer: AU series 2. Immunoassays: Access Series 3. Hematology: DxH Unicel. Steiner 4. Power tools (Brand: Aesculap, German, Acculan 3Ti)  * Neuro Navigation system (Brand: Stryker, USA, Navi3i)  24-jan-2016 – 05-jan-2018Project Incharge, Terabyte Technologies private limited.  * Site in-charge * Installation and configuration of **CCTV** and **ELV** systems  *Projects Handled*  |  | | --- | | BOC (Bank Of Ceylon), alarm and security systems  * Planning for upgrade of security and alarm systems and analysis of limitations in implementation * Coordinating with senior security systems engineer in creating a fool proof security structure. * Systematic scheduled upgrade of all branches in Sri Lanka  NSB (National Savings Bank), CCTV and monitoring network  * NVR and camera selection for material approval (MAR) * Read and understand the existing system specification and simulate with new modules to be compatible with existing systems * Network configuration and NAS for head office monitoring department * Remote technical support and delegation at faults and maintenance. * Data backups and recovery arrangements  Sri lanka Airways, CCTV and Image processing systems  * **Number plate Recognition System** camera installation and configuration * **NTP server** configuration on **Red Hat Linux** * **PTZ** camera installation and configuration  Cargils food city, OpenCV and tensorflow  * Proposed a statistical analysis system for accurate data aggregation of customer shopping habits by implementing **people counting** and **object detection**  on existing CCTV camera streams * Design, script and demonstration of people counting **python** program using **OpenCV** library and **HaarCascades** * Research and Development of semi-automatic stock maintenance system by **Object detection** using **Tensorflow** and **Darknet C++ Library.** * Proposed programs run in Linux environments and still under consideration | |

# *Education*

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| * BEng (Hons) in Electrical and Electronics Engineering,  University of Sunderland, UK  * Final Project: Open source Quadruped Robot for Various Development. * Used Technology: Python, PHP, HTML, C, C++, MATLAB, OpenCV, Facial Recognition, Microcontroller, Arduino, Raspberry pi, I2C, Analogue Electronics, Apache, Linux, Cron, ADC, Analogue Sensors, etc. * Higher National Diploma in Electrical and Electronics Engineering,  Cardiff Metropolitan University, uk  * Final Project: Smart Home Automation system * Used Technology: Python, PHP, HTML, C, Microcontroller, Raspberry pi, Analogue Electronics, Apache, Linux, Cron, ADC, Analogue Sensors, etc. |

# *Skills*

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| * PIC, Atmel, AVR programming and algorithm creation * PLC ladder logic programming and algorithm creation. * C++, C, C# * Micro C, PIC Assembly, Micro C * Python, Java * PHP * Worked with MIPI and dvp camera modules * Tensorflow | * Digital and analogue circuit simulation with software (Multisim, Pspice, Orcad, etc) * Electronic PCB (Printed Circuit Board) designing. * Arduino and Raspberry PI Development * Familiar with Linux environment (Debian, Arch) * OpenCv- On python and C++ image and video processing for object detection and recognition on rtsp streams. * I2C, SPI, Serial, USB, WiFi Communication Protocols. * IoT, Apache server, Network configuration |

# Personal profile

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| Name in full : Mohideen Azhaar Mohideen  Date of birth : 09.02.1994  Passport : N8688364  SL Driving License No : B1868482  Nationality : Sri Lankan  Sex : Male  Marital Status : Single |  |

# *Language Ability*

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| * English (First Language) | * Tamil | * Sinhala |