

OSAMA BIN TARIQ

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SUMMARY

Seeking an opportunity to work with an organization that will provide a platform to utilize my technical and management skills and enrich my knowledge to help in the process of organizational growth and self-growth.

WORK EXPERIENCE

- Electrical Engineer, Amusement & Engineering Services Tech, Joyland Pvt. Ltd.**
- Jan 2017 –
June 2018
- Evaluates electrical systems, products, components, and applications by designing and conducting research programs; applying knowledge of electricity and materials.
 - Programming PLCs, HMI and integrating with the designed electrical panels.
 - Confirms system's and components' capabilities by designing testing methods; testing properties.
 - Develops electrical products according to requirements; researching and testing manufacturing and assembly methods and materials.
 - Assures product quality by designing electrical testing methods; testing finished products and system capabilities.
 - Prepares product reports by collecting, analyzing, and summarizing information and trends.
 - Maintains product data base by writing computer programs; entering data.
 - Completes projects by training and guiding technicians.
 - Contributes to team effort by accomplishing related results as needed.

Projects:

- ***Super Space Joyland, Packages Mall***
 - Logistics, Assembling & Installation of rides from I.E. Park Italy.
 - Manufacturing and installation of fully automated guide track, props and cart-based amusement ride, Horror House, which includes:
 - (a) PLC based control panel with HMI for operation.
 - (b) Soft starter, Over-voltage & Under-voltage protection.
 - (c) Phase failure and fail-safe systems
 - (d) BLDC drive motor & controller for the cart/trolley.
 - (e) Aesthetics done on fiber
 - (f) Pneumatic control and actuations for props

- ***Haunted Dungeons, Emporium Mall***
 - Manufacturing and installation of fully automated guide track, props and cart-based amusement ride, Horror House.
- ***XD Ride***
 - Design and fabrication of seats and motion bases.
 - Synchronization of motion base movement with 3D films and 4D effects using DMX-512 addressing.

Aug 2016 - Oct 2016 **Intern, Maple Leaf Cement Factory**
GCD Cement Mills Electrical department

Aug 2015 - May 2016 **Chairperson, IEEE Robotics and Automation Society NUCES Chapter**
Society in FAST-NU Lahore

Jun 2014 - Jul 2014 **Intern, Pakistan Civil Aviation Authority**
Allama Iqbal International Airport, Lahore

EDUCATION

August 2012 - 2016 **BSc Electrical Engineering (Electronics)**, *National University of Computers and Emerging Sciences (FAST-NUCES Lahore)* **3.18/4.00**

June 2012 **HSSC** with majors in Pre-Engineering, *Garrison Post Graduate College for men, Lahore* **844/1100**

June 2010 **SSC** with majors in Sciences, *Garrison Boys High School, Lahore* **788/1050**

RESEARCH PAPER

Author: Omer Saleem Bhatti,
Co-Authors: Osama Bin Tariq, Aneeq Manzar, Ozair Ali Khan,
"Adaptive intelligent cascade control of a ball-riding robot for optimal balancing and station-keeping,"
Advanced Robotics, November 2017, pp. 1-14.
DOI: <http://dx.doi.org/10.1080/01691864.2017.1399825>
Impact Factor (2016): 0.92, H-index: 49, SJR: 0.47

PROJECTS

Final Year Project We designed a feedback control scheme utilizing the concept of dynamic stability. The robot was able to balance on a ball using the concept of inverted pendulum.

Feedback Control Systems Sun Tracking Solar panel. It used LDRs to locate the angle at which the maximum light falls on the panel. Used servo to rotate the panel.

Microprocessor Interfacing and Programming	Designed a 3-digit calculator with 8-bit BCD and DCB on Atmel 8051
Analog and Digital Communication	Hardware implementation of FM transmitter and Receiver.
Electronics - I	Variable DC power supply (0 to 30V)
Programming for Engineers – II	Game of Checkers in C++ using object oriented programming (OOP)
Programming for Engineers – I	Telephone directory in C++ using filing.

ACHIEVEMENTS

2nd position in IEEE DIY International competition and awarded \$250

- Feedback Control Scheme for a Robot Balancing on a Ball, Final Year Project (FYP)

TECHNICAL SKILLS

Softwares

- MATLAB
- Keil uVision
- Microsoft Office
- WPL Soft
- AutoCAD
- Arduino
- LabView
- Visual Studio
- Proteus
- DOP Soft

CO AND EXTRA CURRICULAR ACTIVITIES

- Mentored **Robo-Race, Robo-Navigation** and **Robo-Rumble** as Chairperson Robotics and Automation Society in **IEEE Week '16**.
- Organized and mentored **Elementary Robotics Workshop 2.0, 3.0** and **Web Based Home Automation Workshop** organized by IEEE Robotics and Automation Society NUCES Lahore Chapter.
- Completed a course on **MIT App Development** organized by **NUCES Circuit Society**.