Muhammad Danyal Khan

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EDUCATION

Bachelor of Science – Electrical Engineering　　　　　　　Fall 2014 - Spring 2018
University of Engineering and Technology, Lahore, Pakistan
Minor: Electronics, **GPA:** 3.05/4.00

High School　　　　　　　　　　　　　　　　　　　　　　Fall 2012 - Spring 2014
Punjab College of Science, Lahore, Pakistan
Major: Pre-Engineering, **Percentage:** 87.54%

EXPERIENCE

Research Intern　　　　　　　　　　　　　　　　　　February 2017 - May 2018
Biomedical Informatics Research Laboratory (BIRL), LUMS, Pakistan

HealthNext: A Patient-Centric Scientific Wellness Backbone for Next-Generation National Health-Care in Pakistan.

Web APIs:
- Developed **.NET Web API** for Client-Server communication using **asp.net core**.
- Developed **HealthNext Sensor Vault**: A cloud-based platform for health information.

Database:
- Developed database for **HealthNext** using **MySql**.

Bayesian Networks:
- Developed **Bayesian Networks** for **Hepatitis C** using **Genie**.

Machine Learning:
- Developed **Learning API** to improve diagnostic results using **NetBeans**.

Android Application:
- Developed **Android Application** for **Hepatitis C** diagnosis.

Audio and Visual Aid:
- Incorporated **Multilingual Support** and **Text to Speech** conversion.

Internship　　　　　　　　　　　　　　　　　　　　　　May 2018 - June 2018
Industrial Control Lab, Electrical Engineering Department, UET, Lahore
- Covered **Siemens S7 1200 PLC**. Areas covered include Bit Logic Operations, Timer Operations, Counter Operations, Math Operations, Interfacing HMI KTP 600 PN, PID, Alarms, Trend Views and Data Logging of process value.

Internship　　　　　　　　　　　　　　　　　　　　　　July 2016 - August 2016
The Searle Company Limited, Lahore Pakistan
- Studied the operation of HVAC, Blister Machines, Compression Machines.
- Implementation of 6s in backup area, production area and stock room.

PROJECTS	Detection of Sleep Apnea using ECG (Machine Learning), UET Car Rental (Database), MIPS (Verilog), Self-Balancing Robot (STM), Quadcopter (TIVA), FM Demodulator using MATLAB, Siemen S7-1200 PLC, Isolated Buck Converter, DC Power supply, Positive Peak Detector.
PROGRAMMING Skills	Ladder Logic, FBD, SCL, ARM Assembly, Embedded C, HMI Interfacing, Verilog, asp.net/.net core, SQL, C, Java, PHP, C#
SOFTWARE	Siemens TIA, Keil uvision, Proteus, LabView, Xilinx, Modelsim, Visual Studio, Genie, Matlab, Android Studio, Navicat, MySql, MS Visio, Microsoft Office, LATEX.
MCRO-CONTROLLERS	Tiva TM4C123, STM32F4 Series.

HONORS AND AWARDS

2nd position, All Pakistan DICE Information and Enabling Technologies (IET) Innovation Event (2017).
Won $500 cash prize
2nd position, FYP Exhibition UET Lahore.
Achieved merit scholarship from Punjab Group of Colleges.

EXTRA CURRICULAR ACTIVITIES

IEEE UET: Executive Member   October 2016 - Present
- An inter university student club that arranges technical activities and workshops to help students in their professional growth.
- Organized APPES (All Pakistan Power & Energy Symposium) 2016.
- Organized SPECTRUM 2017.

UET SCIENCE SOCIETY: Executive Member   January 2015 - June 2017
- Organized SNYES 2016 and 2017.
- Organized All Pakistan Science Fest 2017.

SCIMUN: Executive Member   July 2017 to Present
- Syria Refugee Campaign.
Organized Ramadan Iftaar Drive 2017

INTER PERSONAL SKILLS

Leadership Qualities, Good Researcher, Team Work Spirit, Effective Communication, Analytical Skills, Target Setting, Persuading Mind, Administrative Skills, Good Speaker, Quick Thinker, Problem Solver , Conscientious

INTERESTS

Programming, Socializing, Cricket, Football, Photography,
Watching Documentaries.