Mohammad Farooq

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EDUCATION

PURDUE UNIVERSITY | West Lafayette   Graduation: May 2017
    Bachelor of Science in Electrical Engineering   Cumulative GPA: **3.57/4.0**

WORK EXPERIENCE

Al-Karam International | Product Developer Intern   *Islamabad, May 2016 - July 2016*
- Developed CRC verification and error algorithm with Al-Karam Team to preserve system integrity.
- Implemented data visualizations and developed predictive analytic tools impacting thousands of customer daily

Absolute Holding | Financial Analyst Intern   *Karachi, July 2016 - Aug 2016*
- Tracked and developed vital business metrics to help access the overall health of business using Hadoop.
- Used R, C++ and Java to implement interactive visualization to analyze market trends.

ABB | System Architect Intern   *,   Dubai May 2015 - Aug 2015*
- Built a phone based automation application using ETS5 software to handle thousands of datapoints at any given time. Used ETS5 to develop human machine interaction using ABB's API.

PROJECTS

Digital To Analog & Reconstruction Filter | Senior Design, Verilog,C,C++,Altium
- Used System verilog to implement 163 tap FIR filter on FPGA, used polyphase windowing system and edge detection to have channels in phase and accurate cutoff. Pcb implemented on Altium. Winner of best sound award.

Self Navigating Vehicle | C,C++,Java
- Used embedded C to parse code for GPS module.The chip provided could not do complex mathematical computation so designed chip on altium and wrote embedded C so they can communicate over SPI. Wrote C++ for PMW which controlled the servos and motors. Winner, best ECE 362 project.

Home Automation | Computer Vision, System Verilog, C
- Worked on Networking programming like TCP/IP programming and used embedded C to implement KNX based protocol, used ETS5 to implement basic peripheral configuration. Developed visualization in ETS 5 software to monitor general health of peripherals over time.

PROGRAMMING EXPERIENCE

LANGUAGES / DESIGNING   C, C++, Python, Java, JavaScript, SQL, HTML, CSS, XML, Hadoop, MATLAB ,Altium, Autocad, Catia,Yarn, ETS5, Verilog, Indal, Calpeda

HONORS AND AWARDS

- Spark Challenge Best Programmer award   *2016*
- SCLA ,Best student MA 266, invite-only Purdue Math Honors Society   *2015*
- ABB KNX certified Automation Engineer   *2015*
- Dean's List and Semester Honors, Purdue University   *2013*