M. HAZRAF KHAN

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Education

Drexel University	Philadelphia, PA
Bachelor of Science in Mechanical Engineering	Anticipated Graduation: June 2017
Minor in Interactive Digital Media (Web Development)	**Cumulative GPA: 3.88**

Honors

Dean's List, Drexel University, Fall 2013 to Winter 2016 (Each Term)	Dean's Scholarship, Drexel University, 2013 - Present
HESS Undergraduate Scholarship Grant for Research, 2015 & 2016	PSD Scholarship, Malaysian Government, 2011 - Present

Skills

Software: CREO Parametric, Autodesk AutoCAD, Autodesk Revit, Solid Edge, EnteliVIS, Microsoft Office Suite, C++, MATLAB, CSS, ACR-View, Bluebeam, Adobe Photoshop, Illustrator

Technical: Machining, Woodwork, Soldering, Gas Welding, Low Voltage Wiring, Plumbing, Computer Hardware

Experiences

EwingCole   Philadelphia, PA
Mechanical Fire Protection Engineering Coop   March 2016 - Present
- Calculate the building's occupant load and limiting capacity for all egress doors and stairs for the Life Safety Plans
- Review life safety plans and ensure the drawings comply with the National Fire Protection Association Code (NFPA) and International Building Code (IBC)
- Review plans from other trades (Architectural, Mechanical and Plumbing) and ensure the drawings meet with the Fire Protection plans
- Utilize Autodesk AutoCAD and Revit to compose new acquired Life Safety, Fire Protection and Fire Alarm plans for new and existing constructions

Delta Connects   Dayton, NJ
Engineering Assistant   March - September 2015
- Picked-up markups of existing drawings and updated AutoCAD drawings using "As-Built" documentation
- Created start-up forms which consisted of controller's I/O lists for HVAC Controls field testing
- Produced submittals to go out to consulting engineering firms
- Composed new acquired jobs schematics in AutoCAD based on Application Engineers' designs
- Created Take-Off List for Estimating Team by utilising Bluebeam to count equipments in Mechanical drawings
- Involved in engineering group meetings to improve the Drawing and User Manual Standard
- Composed Bluebeam and AutoCAD training modules for new employees

Biopolymer Fabrication Lab   Drexel University, PA
Lab Assistant   September 2015 - March 2016
- Involved in experimenting self-folding bio-polymer with a group of graduate students
- Applied machine tools (milling, lathe, etc) to build equipments for lab testings
- Assisted in writing code using ACR-View6 to increase the efficiency of the bio-polymer printing equipment

Engineering Design Projects

DC Circuit City Model   The Franklin Institute & Drexel University, College of Engineering
- Designed and built a city model prototype with multimeters and light bulbs to teach middle grade students about electric conductivity
- Calculated tolerance for multiple parts of the design, cost of production and prototype evaluation
- Selected by the Franklin Institute (FI) representative as the best junior design project to be further developed into the final product for demonstration in the FI science exhibit

Bounce Ball Game Application   Drexel University, College of Engineering
- Analyzed correlation between data received from Arduino Uno board through sensors and project it to Matlab for data analysis using algorithms that obtained data from hand motion
- Produced complex code to filter raw data from Arduino with threshold counts to only take in data from specified directions
- Performed advanced visualization of the data through attractive built-in MATLAB application for the user

Extracurricular Activities

- Vice President, Malaysian Entrepenership Association
- Marketing Manager, Drexel Malaysian Students Association
- Member, Pi Tau Sigma Mechanical Engineering Honors Society
- Member, American Society of Mechanical Engineers
- Founder Tidoq Homestay Malaysia (Tidoq.com)
- Co-founder HAS Studios Perlis (hasstudios.com)