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| **MUHAMMAD AMAD KHAN** | **7250 Fairchild Dr Apt 202, Alexandria, VA 22306**  **(703) 889-0985**  **muhammadamad12@hotmail.com** | | |
| **PROFILE SUMMARY**  Personable and tenacious professional with years of experience, abilities and skill in mechanical engineering, and also additional skills and knowledge in the aspect of team leader, researcher and technical project. I display an outstanding ability to plan, operate, multitask, organize, coordinate, and implement practices and procedures to bring significant improvements in processes towards the successful attainment of goals.  **CORE COMPETENCIES**   |  |  |  | | --- | --- | --- | | * Project Management * Policies & Procedures * SolidWorks * Strong Organizational Skills * Team Player | * Proficient in Microsoft Office * Ability to Multi-Task * Customer Service Skills * AutoCAD, Autodesk Inventor * Matlab, Java | * Problem Solving * Good Time Management * Goal-Oriented * Good Communication Skills * Interpersonal Skills |     **EXPERTISE AND COMPETENCIES**   * **Active Listening**: Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times. * **Complex Problem Solving**: Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions. * **Coordination:** Adjusting actions in relation to others' actions. * **Critical Thinking:** Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems. * **Judgment and Decision Making:** Considering the relative costs and benefits of potential actions to choose the most appropriate one. * **Management:** Coordinating and guiding others to meet objectives and goals. * **Monitoring:** Monitoring/assessing performance of other individuals, or organizations to make improvements and take corrective action. * **Multitasking:** Juggle multiple tasks and responsibilities while remaining composed and meeting deadlines. * **Relationship Management:** Conflict resolution, motivating, organizing, troubleshooting and establishing rapport.   **SELECTED EXPERIENCE**  **Senior Design Project**  **Erosion Testing Machine | September 2018 – May 2019 |**  **Team leader and Researcher / Financial Chair**   * Project was sponsored by the Office of Naval Research * Objective is to design and manufacture a bench level test apparatus for quick screening of erosion protection materials under variable velocities and in mixed rain/particle medias * Collaborated with four other teammates to design and manufacture a system that can conduct variable erosion tests as well as combine a range of flow velocities with mixed media conditions   **First part of senior design or Capstone project**   * Design the machine using SolidWorks and Inventor * Did the researcher and look material for the machine * Maintain accuracy and detail oriented while complying with deadlines * Attention to detail and ability to learn and adapt quickly   **Second part of Capstone project**   * Build the recirculation machine. Used two different recirculation system one for fresh/saltwater and other for sand and wet sand * Build the rotation arm and add the simple holder to the arm. The simple holder can change from 30,45 and 60 degree angle * Build the frame for the whole system from wood * Connect the testing camber, recirculation system together using pipes * Prioritize tasks and handle multiple tasks simultaneously in a changing work environment   **Technical Projects**  **Mechanical Design Project | September 2017 – December 2017 |**   * Design a specific shaft combined with several gears for Mechanical Elements class. * This was mechanical design class each week we study a chapter and applied to the project * It was mostly focus on shaft, fatigue life of material etc.   **Electric classes ECP 1 and 2 for my major**   * Good with electric work and can-do analysis using AC/DC voltage * Did six projects in this class   + **Laser Security Alarm:** The laser system used for pool and set to detect when small children come within a set number of feet from the edge of the water,September2017 - December 2017   + **Light sensor** in which the light will turn on when it’s dark and off when it daytime, September 2017 - December 2017   + P**arking sensor** to count the cars when they get into the garage September 2017 - December 2017   + **Muscle Movement Sensor:** Design the circuit diagram in Cadence PSpice for muscle movement. It was a combination of the circuit with Matlab software to give the graph of the movement, September 2017 – December 2017   + **Rectification:** The Rectification the processing which converts the Alternating Current (AC) input power into a Direct Current (DC) output power, September 2018 – December 2018   + **Audio Signal Processing**: The purpose of this project is to make a small speaker than can be used for laptop or phone, September 2018 – December 2018   **EDUCATION**  **George Mason University - (GMU), Fairfax, Virginia**  **Bachelor of Science (B.S), Mechanical Engineering, GPA: 3.0 / 4.0**  **Activities:** American Society of Mechanical Engineers (ASME)  **May 2019**  **Northern Virginia Community College - Annandale, Virginia**  **Associate of Science (A.S), Engineering, GPA: 3.4 / 4.0**  **2016**  **CERTIFICATES**  DoD / CPO Basic Corrosion Course  AutoCAD certificate for Northern Virginia Community College in progress Fall 2019  **GENERAL SKILLS & ABILITIES**   * Possesses a positive, energetic and professional attitude * Achieving goals, creative/strategic thinking and problem solving * Demonstrated ability to work and perform at the highest standards in complex and demanding environments * Excellent ethics, hardworking, focus minded and sound organizational ability * Flexible to change with excellent planning and execution skills and works well within the constraints of tight deadlines * Foreign Language(s): Urdu,Pashto   **REFERENCES**  Available upon request | |  |