Krantikumar Subhash Pawar

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**Summary of Qualifications:**

Materials Science and Mechanical Engineer looking for a full-time opportunity role as Materials Engineer/Process Engineer/Manufacturing Engineer/Solar Engineer.

**Work Experience:**

**Graduate Student Researcher (Computational nanomaterials lab)** Jan 2019 – Dec 2020

* Performed Density Functional Theory calculations (DFT) using VASP (Vienna ab initio simulation package) for structural optimization and calculation of electronic properties of the electron transport layer (ETL) in hybrid perovskite solar cells.

**Graduate Teaching Assistant, Wright State University** Aug 2019 – May 2020

* Guided students for maintaining the project documentation for capstone design 1 &2, and graded them based on their performance.

**Engineering Intern, Akshay Casting (aluminum die casting firm), Kolhapur** Jan 2016 - Jun 2016

* Performed various tests on aluminum alloys such as Brinell hardness test and composition testing with OES, also managed the activities of workers involved in making cores, molds and operating furnaces.
* Analyzed materials and products at various stages of casting, performed quality check on the final products using various instruments such as Vernier caliper, micrometer, depth gauge, bore gauge etc.

**Engineering Intern, Kulkarni Industries, Kolhapur** May 2014 – May 2015

* Successfully designed an assembly workstation for the ICU bed assembly to increase the production rate with the optimal use of available resources using suitable material selection.
* Implemented ABC analysis, 5S system, 3M under lean manufacturing techniques and successfully designed an ergonomically suitable workstation.
* Minimized the required floor space area for assembly by 40%, increased production rate by 15 units per day and reduced the time required for each assembly by 55%.

**Trainee Engineer, Sahil Industries, manufacturer of crane and hoist, Kolhapur** June 2014

* Thoroughly analyzed different types of cranes and their manufacturing processes and directly worked with the senior engineer for installation and assembly of the final product.

**Technical Skills:**

Mechanical testing of materials, Material characterization, Non-destructive testing (NDT), Optical emission spectrometer, SolidWorks, Optical microscopy, Lean manufacturing, SEM, Casting, Microsoft office, Metallography, Teamwork, Excellent written and verbal communication, Analytical problem-solving abilities, Failure modes and effects analysis (FMEA), GMP, Root cause analysis, Computational simulation tools, Quality management and safety training

**Education:**

Wright state university *Dayton, OH*

**Master of Science (MS), Materials science and engineering** Dec 2020

Current GPA: 3.4/4

Kit’s College of Engineering (Autonomous) *Kolhapur, MH*

**Bachelor of Engineering (BE), Mechanical Engineering** May 2015

**Related Coursework:**

Advanced Thermodynamics, Transformation of solids, Thermodynamics of Materials, Engineering polymers 2, Mechanical Behavior of Metals, Structure and properties of materials, Introduction to Ceramics, Photovoltaics, Engineering polymers

**Certifications:**

ISO 9001:2015 Quality Management System Auditor, Six Sigma: Green Belt, Lean Six Sigma Foundations