JOB DESCRIPTION

| **Title** | Mechanical Designer |
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| **Reports To**  | [Insert Title] |

**Job Purpose**

The Mechanical Designer will be responsible for producing, modifying, and verifying design files and technical drawings for the products marketed by [Organization Name], as well as all aspects relating to calculations and design automation.

The ideal Mechanical Designer has excellent technical, analytical and problem-solving skills. Teamwork is also essential as all tasks will require close collaboration with engineers and other professionals to create and improve manufacturing systems or processes and develop drawings.

**Duties & Responsibilities**

Key responsibilities include, but are not limited to the following:

* Prepare calculations on the proposed machine before completing technical drawings;
* Sketch and draw up designs, using input from engineers on the team;
* Calculate factors such as tolerance, dimensions, and thermal and structural analysis;
* Create designs in line with company procedure, regulations, and client standards;
* Submit drawings to upper management and construction teams;
* Support the program manager by providing technical expertise on designs, time estimates, and products;
* Use customer feedback and data to upgrade, improve, or repair the company's existing machines;
* Provide support during the building and installation process, ensuring that the machine is built properly and according to design specifications;
* Finalize designs and send prints to the production department;
* Ensure all new products are tested and conform with safety standards and design practices and meet or exceed industry standards;
* Provide coordination of project designs with other disciplines;
* Complete and document testing and test-fitting of products to ensure fit, function, and safety conformance;
* Maintain safe and clean working environment by following and, in some cases, enforcing procedures, rules, internal policies, and regulations;
* Maintain and acquire knowledge of safety standards in the category of each design project; and
* Additional related duties as assigned.

**Core Competencies**

* Ability to work independently and as part of a team for designs
* Strong organizational and time management skills
* Detail oriented and results-driven approach
* Ability to work under pressure and to multitask
* Excellent analytical and problem-solving skills
* Strong oral and written communication abilities
* Demonstrate precision due to the tight level of tolerance required on the final product
* Safety conscious at all times
* Facility with numbers and measurements required

**Qualifications**

* Bachelor's degree in Engineering or a relevant technical degree
* XX years experience in engineering role or related experience is required
* Work experience in the manufacturing sector is an asset
* IT and Computer Aided Design knowledge required
* Knowledge of work safety measures an asset
* Excellent knowledge if mechanical design principles and ethics
* Certification in (Insert type)

**Working Conditions**

* The standard work week for this position is XX hours.
* The standard business hours for this position are from <insert time> to <insert time>; Monday to Friday.
* Overtime and hours worked outside of the standard work schedule are required, including some evenings as needed.
* This position is onsite.