ROBERT SMITH

Research Engineer I

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SUMMARY

Research Engineer position within an organization that can fully utilize skills to achieve their business needs and objectives.

CORE COMPETENCIES

MS Office, Sap, Supply Chain Management, Logistics, Project Management.

PROFESSIONAL EXPERIENCE

Research Engineer I

ABC Corporation - August 2012 – February 2016

Key Deliverables:

- Technical expertise in modelling, Design and development of the BIW structure and sheet metal components of Hyundai passenger vehicles.
- Worked in preparation of Design documentation, Source request, CCS (Cost calculation system).
- STL is process of obtaining raw cloud data from clay/wooden models and then generating the 3D data for the design process.
- Worked extensively on the creation of outer skin body from the STL data, and obtaining sections for the development of car design.
- Design of components considering parting lines, welding, sealer application while ensuring tooling condition, component manufacturability process, Ergonomics, Engineering feasibility.
- Designed and developed 2D and 3D drawings and specifications necessary to support the development of new products and modification of existing products.
- Worked in several projects from concept stage to proto stage and designed Side structure, Combi lamp Hsg, Centre floor, Rear floor, Roof, Cowl, Dash, Fender apron assemblies using CATIA V5 (GSD).

Research Engineer

ABC Corporation - 2011 – 2012

Key Deliverables:

- Metz Area- France PROJECT OBJECTIVES The initial aim of the thesis was to propose a new simplified model for rolling allowing a rapid calculation, if possible, in real time, so that the model would eventually integrate into a management tool production machines.
- This model should not neglect the elastic deformations in order to be applied to the study of phenomena associated with the change in bandwidth or flatness phenomena.

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- It must also be open enough that we can integrate the description of microstructure of polycrystalline material and possibly take into account the deformation of rolling rolls.
- To achieve this goal, we proposed to build a simplified semi-analytical model of rolling.
- We showed two approaches to the analytical calculation of the mechanical fields when the history of these fields was known in the neighborhood of particle .We then proposed to study a particular class of elastoplastic evolution that we called "simple radial" and we showed that the evolutions followed the principle of minimum energy.
- Finally, we conjectured that this principle can be extended in steady state, which allowed to build a simplified model of the rolling process.
- PROFESSIONAL EXPERIENCES Project management planning and techniques Development of new modeling to calculate rolling process Finite element calculation Elasto-plastic behavior of steel material Elasto-plastic multi-layer modeling of rolling process Mechanical.

EDUCATION

Master of Science in Mechanical Engineering - January 2016(Texas A&M University)

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