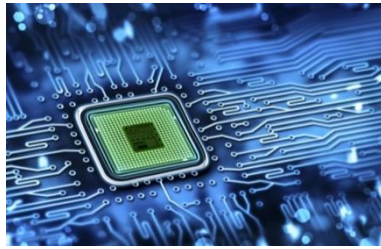




PASSION. PRECISION. PURITY.



MASTER THESIS

Manufacturing Through 3D – Drawing Free Production

Take the Drawing off the Critical Path

Are you looking for an opportunity to write your thesis in an industrial environment or obtain valuable industry experience, during or after your technical education? Here is one of many interesting topics we have on offer. We are also very open to your own ideas in order to create a matching opportunity for you at VAT.

Innovation has always been the driving force at VAT since the company was founded over 50 years ago. This has made us the world leader in vacuum valves and vacuum sealing technology. This pioneering spirit motivates us daily to meet our customers' requirements with enthusiasm. Together with our employees we stand for passion, innovation and quality. VAT is headquartered in Haag (Switzerland) and employs approximately 2 000 people worldwide. It has production centers in Haag (Switzerland), Penang (Malaysia) and Arad (Romania) as well as a production facility in Xinwu (Taiwan). With our customers mainly being situated in the United States and Asia, this provides a great opportunity to start an international career.

What you will explore:

Digitalization gains more and more increasing interest by the manufacturing industry. Therefore, Model Based Design and manufacturing through 3D is becoming more important in Industry 4.0. To speed up our design and manufacturing process we are looking for an innovative brain with excellent CAD-CAM System skills. Goal of the work is to simulate an entire manufacturing process based on NX 3D models without drawings by an existing real product. Your responsibility will cover the whole order fulfillment process starting with the collection of ideas together with our engineering & operation team, define and evaluate concepts, build a model-based simulation and finally test the solution.

- Analysis and Concept Development
- Description of today's and future process
- Automated process development and real process simulation
- Feasibility study and potential analysis
- Economic calculation, Management Summary (Presentation)

What you will need:

- Practical Know-How in design & manufacturing processes (project references)
- Knowledge of CAD-CAM tools and system integration
- Excellent concept writing skills
- Strong holistic thinking

Are You Ready for the Challenge?

Then we look forward to receiving your **electronic application sent to Jochen Magnes.**

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