

Thomas Szymanski

Warsaw, Poland | Cell: 0048-600-091-231 | thomas@tomekszymanski.pl

Profile

Analytical Mechanical Engineer with solid product engineering. Skilled CAD Designer with 9 years knowledge and experience within various engineering disciplines. Focused and dedicated professional with an extensive background in plastics design and high volume product development. Experienced Team Leader with strong leadership and relationship-building skills. Effective Design Engineer with extensive experience in German Automotive. Available to relocate nationwide. www.tomekszymanski.pl

Skills

- Mechanical Engineering
- Plastics
- Injection Molding
- Plastic Injection Simulations
- Ultrasonic Welding
- Automotive
- SolidWorks (9 years)
- Rapid Prototyping
- Mechanical Design
- DFM
- DFA
- GD&T
- APQP
- FEA
- PPAP
- DFMEA
- EPDM
- ISO 9001
- Project Management
- Change Management
- Documentation Management
- Product Design
- Product Development
- Time Management
- Gantt Project
- Microsoft Office

Accomplishments

Product Improvement

- Eliminated design failures which caused warpage and shrinkage of Porsche air compressor polypropylene housing.
- Designed polypropylene windmill which reduced motor current by 20% comparing to old design (1.4A to 1.1A).

Testing, Evaluation and Analysis

- Analyzed data and provided solution resulting in approximately 5% cost saving solution (1.5 million €/year).

Document Control

- Implemented Documentation Management procedure for R&D in EPDM System.
- Served as document control specialist for associate designers according to GD&T.

CAD Training

- Supervised and trained associate designers in SolidWorks System (Parametric 3D Modeling Design Methodology).
- Organized and delegated work according to team members' abilities.

Research and Development

- Implemented parametric 3D Modeling Design Methodology System for plastic parts in SolidWorks.
- Implemented Engineering Change Management procedure in EPDM System.
- Developed Procedure for Product Design and Development for plastics in automotive sector. (Commended by ISO 9001 Auditor for this procedure.)

Innovative Design

- Developed ultrasonic welding design for product resulting in lower quantity of parts and lighter product.

Drafting

- Prepared 2D documentation company templates standard in SolidWorks linked to EPDM System.

Promotions

- Promoted to Technical Project Manager (for the committed work resulted in growth and success of organization)

Professional Experience

Founder/Mechanical Engineer | Tomek Szymanski CAD Design Office | Warsaw, Poland

02/2012-Present

- Executed and provided consultancy and support for projects in the Mechanical Design of plastics
- Designed 3D plastic parts (housings for electronics, dispensers, stands, displays)
- Created assembly documentation for production

Technical Project Manager | AIRCOM Automotive | Wroclaw, Poland

08/2013 - 12/2014

- Led innovative project for German Automotive (Volkswagen, Porsche, Audi, Mercedes)
- Analyzed customer requirements for Porsche air compressor
- Created base schedule for product design
- Led team of five designers in R&D
- Created product test plan to fulfill client requirements
- Took part in external audits of plastic parts suppliers
- Reviewed and evaluated technical project documentation
- Chaired Design Reviews in different stages of the product

Senior Mechanical Engineer | AIRCOM Automotive | Wroclaw, Poland

07/2012 - 08/2013

- Designed and assembled Volkswagen air compressor prototype
- Optimized design of plastic parts after injection and FEA simulations for DFM & DFA
- Created complete 2D documentation according to GD&T
- Created BOM for product, including all design changes for Volkswagen audit
- Chaired DFMEA meetings for Volkswagen air compressor.
- Used SolidWorks software for Finite Element Analysis

Mechanical Engineer/Prototype Constructor | Perfecta Centrum Reklamy | Wroclaw, Poland,

08/2011 - 02/2012

- Designed Point Of Sale Materials(POSM) made of plastics allocated to Germany, United Kingdom and Italy
- Created revolutionary POSM product (concept + prototype), patented in December 2011
- Implemented high volume products for the production
- Created complete 2D documentation according to GD&T
- Constructed prototypes for plastic dispensers, displays, stands, light boxes

CAD Designer | ABVCP Polska | Warsaw, Poland

09/2009 - 09/2010

- Designed 3D plastic dispensers, displays and stands in SolidWorks
- Created 3D visualizations of plastic products for advertisement sector
- Created complete 2D documentation according to GD&T

CAD Designer | CNS Solutions | Warsaw, Poland

07/2008 - 01/2009

- Took part in Malaysian Contract for tank design "PT-91 Twardy"
- Designed tank 3D parts according to 2D documentation
- Created assembly documentation for production

Education

Wroclaw University of Technology, Poland

Specialist

Project Management

Wroclaw University of Technology, Poland

Specialist

Plastics in Mechanical Engineering

Warsaw University of Technology, Poland

BSME

Mechanical Engineering

Certifications

- Certified SolidWorks Professional (CSWP), License: C-RTC97KH9HJ, Dassault Systemes
- SolidWorks Plastics Certificate, License: 363/PLA/2013, CNS Solutions