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PRODUCT DEVELOPER
 DESIGNER
 INNOVATOR
 LEAD

TIMELINE & ROLES

TASKS LED AND ACHIEVEMENTS

OBJECTIVE & PERSONALITY

- ▶ Leverage my ideas and knowledge in the mechanical, management and design fields to serve innovation. Lead and structure a project in an international context. Design meaningful solutions for the people.
- ▶ Driven by discovery, challenges and problem solving. Eager to learn, understand and help others.

INNOVATION & DESIGN

LEADERSHIP, COMMUNICATION & MANAGEMENT

TECHNICS & MODEL VALIDATION

- Application of corporate identity through different support
- Study and management of design processes and best practices

- Lead peer review to challenge proposal
- Lead brainstorm session
- Review product development processes

- Generation and control of technical spreadsheets

- Technology intelligence
- Brainstorm session lead
- Design review lead
- Prototyping
- Market analysis
- Sketching partial solution and design directions
- Sparring with designer(s) concerning full product aesthetics (including trim and colours)
- Renders and product animation
- Marketing persona's definition
- 5-year product roadmap definition

- Bi-weekly stand-up, and milestone meetings lead
- Data and documentation management
- One-One reflection meetings with each collaborator on the project (12 different persons)
- Needs assessment and review with team and customer
- Communication with customer and suppliers
- Tasks and planning definition on team level
- Business model definition and review
- Budget and support in offer towards customer

- Technical review lead
- 3D modelling
- FEM analysis
- Test and reviews definition and lead
- Product requirements definition
- Electrical wiring definition
- Norm review and analysis
- Review and support test plan definition
- Design of welded frame with sheet metal and tubes (front carrier)
- Design of injected plastic parts
- Firmware review and configuration
- Patent review and request

- Pugh matrix assessment
- Brainstorm support

- One-one bi-weekly review
- Tutoring 2 bachelors end project and 1 intern (2 times IPO, 1-time mechanical engineering)

- Injected plastic parts
- Review and selection of purchase components
- Fluid mechanics

- Generation and evaluation of concepts concerning partial product architecture
- Design of new test tools
- Definition and review of test plan

- Task review management and definition
- Generation of evaluation tools
- Creation of development status board
- Creation/standardisation of work templates

- Functional analysis
- Technical support in FMEA evaluation process
- Dimensioning and validation of innovative screw connection
- Support in FEM analysis
- 3D model of plastic parts

- Out the box thinking - Solution generation deviating from original request better matching needs

- Reporting – Weekly report to customer, written and orally
- Identification and choice of supplier
- Project plan creation and management
- Transfer and collaboration with colleagues following up industrialisation phases

- Technical assessment of potential suppliers and solutions
- Thermic insulation – Study of available material and generation of spreadsheet to assess thermal conductivity
- Cold forming – Study of hydro forming and deep drawing production process for stainless steel

March 2019

January 2022

PRODUCT DEVELOPER

- **Creation of Pi academy** – gathering of templates, spreadsheet, and tutorials to ensure a sustainable work method within the company
- **Sales support** – Generation and review of process and budgetary planning to support sales

January 2020

January 2022

LEAD PRODUCT DEVELOPER
 Internal mission for Dutch bike OEM

- **Lead project from scratch** – Start from scratch with the customer vision and embodied it stage by stage
 - From user's needs to specifications
 - Study and application of adapted solutions
 - Proof of concept, prototyping, and test
 - Industrialisation
- **Carry vision** – Incorporate and lead various team members getting in and out of the team
- **Electrical design** – Selection and definition of electrical hardware on the bike including wire harnesses
- **Sourcing management** – Collaboration with worldwide based suppliers and technical reviews of their deliverables
- **Process management** – Planning and process definition to reach goals on tasks level
- **Support engineering** – FEM calculation and 3D modelling as cooperative leader
- **Side project development** – Design, dimensioning, study of the norm and sourcing of accessories
- **Product validation** – Supervision of prototypes productions and tests or reviews
- **Patents review** – Support and review 5 potential patents, 3 requested

February 2021

January 2022

LEAD PRODUCT DEVELOPER
 Supervision of development of sauce dispenser

- **Interns tutor** – Supervision and management of interns and junior developers towards the design of a working product
- **Scrum master** – Lead bi-weekly updates and team meeting organisation

April 2019

December 2019

PRODUCT DEVELOPER
 Consultant at Mirror Control International (Mci)

- **Plastic parts modelling** – Support and modification of design
- **Define tests** – from test process including jigs to results analysis
- **Dimensioning bolted connection** – Specific engineering work focus on bolted connections, from selection to test
- **Scrum master** – Definition of sprint and lead of bi-weekly scrum meetings

March 2019

July 2019

PRODUCT DEVELOPER & PROJECT MANAGER
 Internal mission for Wassenburg Medical

- **Requirements review** – Formalisation and specification of customer's requirements - Proposed solution selected and applied by customer generated up to 900000€ spared expenses
- **Feasibility studies** – Research to prove that customer's problems can be solved
 - Research and contact of potential suppliers for cold formed stainless steel
 - Generation of 3 realistic solutions, including suppliers' selection
 - Evaluation of considered solution
- **Project management** - Planning and support of detail engineering and industrialisation phases

ACTIVITIES THROUGH THE YEARS

SKILLS USED TO REACH EACH GOALS

TIMELINE & ROLES

TASKS LED AND ACHIEVEMENTS

May 2018

February 2019

SPECIAL DESIGN ENGINEER

Worked on 34-52T platform

- **Modification of standard trucks** – worked on multiple projects with 3 main achievements
 - Reach stacker with magnetic interface instead of twist lock and spreader
 - Automatization of special paint process
 - Review and modularisation of camera system
- **New employees' workshop** – Gathering of all new employees to gather feedbacks from fresh eyes towards management
- **Special designs guidebook** – Redaction of an introduction guide with all required technical and functional knowledge
- **Modular approach** – Proposal of two different approaches (functional or interaction) to improve modularity of trucks

September 2017

May 2018

R&D LEAD ENGINEER

Worked in the Kaak spirals team

- **Team organisation** – Review of each team members roles and clear definition of 5 different roles
- **New development roadmap** – Definition of a 3-year roadmap of all necessary development to improve teams' efficiency, limit product cost and improve final solution for customers
- **Standardisation of solution** – Moving from unlimited amount of solution to standardised generator and modules delivering a limited amount of possibilities
- **Lead new development** – Worked or supervised development of new modules such as dry or wet belt cleaning modules
- **Customer's communication** – Visit and collaborate with customer in Germany and in France to get a better understanding of their needs

October 2016

September 2017

LEAD MECHANICAL ENGINEER

Project based team lead for Kaak Spirals

- **Project team management** – Lead of teams up to 6 engineers on project base. Each project during between 3 and 6 weeks
- **Continuous improvement** – Review and improvement of engineer and production tools
- **Machine modules development** – Lead of dedicated resources to generate standard module (e.g., Motor frame)
- **Introduction new colleagues** – In charge of training of new colleagues
- **Technical responsible** – In charge of calculation and dimensioning of machines and design of customer specific solutions

February 2015

October 2016

MECHANICAL ENGINEER

Project based engineer for Kaak Spirals

- **Machine modelling** – Generation of 3d model and production drawings
- **Machine dimensioning** – Mechanical analysis and calculation of structure
- **Team structuration** – First steps towards agile structure

May 2016

May 2014

MECHANICAL ENGINEER

Project based engineer of warehouse automation (conveyors)

- **Machine modelling** – Generation of 3d model and production drawings
- **Machine dimensioning** – Mechanical analysis and calculation of structure
- **Production line implementation** – Full 2D model of production line, realised after building measurement control
- **Custom module design** – Design of a custom-made workstation to inject cloth on a sorter
- **Prototyping and proof of concept** – Proto build and definition of test procedure to validate design with customer and end users
- **Purchase technical specifications** – Collaboration with purchase department to specify purchased machines

INNOVATION & DESIGN

LEADERSHIP, COMMUNICATION & MANAGEMENT

TECHNICS & MODEL VALIDATION

- Introduction of DSM matrix to create modules within existing solution
- Functional analysis

- Coordination of required experts for project (Electrics, production, manufacturing, simulation...)
- Review and management of project planning
- Communication with international customers and suppliers
- Presentation of innovation projects to the management team

- Generation and control of technical spreadsheets
- Wire harness modification
- Design of sheet metal parts
- 3D Modelling and production drawings
- Lead of fine element analysis (FEA), design for manufacturing (DFM) and design for assembly (DFA) check

- Technologic intelligence
- Brainstorm session lead
- Design review lead
- Prototyping
- Sketching partial solution and design directions
- Renders and product animation
- 3-year development roadmap definition
- Pugh matrix assessment

- Data and documentation management
- One-One functional meetings with each collaborator of the department (12 different persons)
- Communication with customer and suppliers
- Tasks and planning definition on department level
- Tutoring of interns

- 3D modelling
- FEM analysis
- Norm review and analysis
- Design of welded frame with sheet metal and tubes
- Generation and control of technical spreadsheets
- Machined plastic parts

- Pugh matrix assessment
- Brainstorm lead
- Renders and product animation

- Data and documentation management
- Communication with customer and suppliers
- Tasks and planning definition on team level
- Tutoring of interns
- Generation project status boards
- Base agile organisation
- Task tracking spreadsheet

- 3D modelling and production drawings
- FEM analysis
- Norm review and analysis
- Design of welded frame with sheet metal and tubes
- Generation and control of technical spreadsheets
- Machined plastic parts

- Renders of machine to support sales
- Proposal of production and technical improvement

- Data and documentation management
- Communication with customer and suppliers
- Generation project status board

- 3D modelling and production drawings
- FEM analysis
- Norm review and analysis
- Design of welded frame with sheet metal and tubes
- Machined plastic parts

- Design, industrialisation, and ergonomic validation of a workstation (sorter injection platform)
- Prototyping of designs

- Supervision and management of 1 mechanical engineer
- Communication with international suppliers
- Redaction of request for quote

- 3D modelling and production drawings
- FEM analysis
- Norm review and analysis
- Design using steel, metal sheet, extrusion profile, wood and machining production process
- Factory CAD design

COMPETENCES, INTERESTS & MORE...

INNOVATION & DESIGN

- Circo cursus for circular design (day cursus followed in 2019 + 2 hours follow up session)
- User centred design & Ergonomics
- Photography and use of Adobe creative suite
- Follow technical and design trends
- Self-taught in coding (HTML 5, CSS 3, VBA)
- International background and vision
- Cultural exchange and discovery through travels
- Construction of business models

- **Use of several CAD software**
Solidworks ♦ Creo (Parametrics & direct modeling) ♦ AutoCAD ♦ Unigraphics NX ♦ Catia
- **Simulation software**
Solidworks simulation ♦ Creo simulate ♦ Ansys (workbench) ♦ Amesim ♦ Simapro
- **Structure and risk assessment**
TDC Knowlence
- **Microsoft tools high level proficiency**
Office suite, teams, project
- Knowledge in metal production process, plastics, polymers, and 3D printing
- Work with mobility (bike), household, food industry and medical norms
- (D-)FMEA support and understanding
- Functional analysis

TECHNICS

EDUCATION

- **2014 – TU Delft**
Dutch intensive cursus from A0 to A2
- **2010-2012 – Grenoble Institute of Technology – Génie Industriel**
Master of Science – Product engineering
- **2011-2012 – Ensci Les Ateliers**
Specialization Industrial design
- **2009-2010 – Grenoble Institute of Technology – Génie Industriel**
Bachelor of Science – Industrial engineering & Management
- **2007-2009 – Lycée Vaucanson**
Classe préparatoire aux grande écoles
Bachelor level in mechanical and electrical engineering, physics and mathematic

- **Spoken languages**
 - **FRENCH** – NATIVE SPEAKER
 - **ENGLISH** – FLUENT SPEAKING AND WRITING
 - **DUTCH** – FLUENT SPEAKING AND PROFESSIONAL PROFICIENCY WRITING
 - **GERMAN** – ELEMENTARY PROFICIENCY
- **Hobbies**
 - Practice of sports (Badminton, Squash, tennis, road bike...)
 - Cooking
 - Drawing
- Diploma for youth leaders and workers (head scout like)

COMMUNICATION & RECREATION