modelwise

Info
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Company Outline

- Company founding: July 29, 2020
- Team: 3 founders
- Company phase: Seed stage

Achievements

- Awards: Bundeswettbewerb Digitale Innovationen, EIT Promising Entrepreneur Prize
- POCs: Pepperl+Fuchs SE, HIMA GmbH
- LOIs: 10 companies, e.g. Continental AG
- Start EXIST in 06/2019
- First prototype in 10/2019
- First POC in 04/2020

Advisors

- Prof. Peter Struss, Researcher TUM
- Herbert Schwörer, Business Coach
- Sara-Rose Röthel, Founder and Executive
- Dario Rienhardt, Investment Manager
- Erik Neumann, Innovation Manager

Management Team

Florian Grigoleit – CEO
Management, Research

- M.Sc. Computer Engineering
- Doctoral Research: AI in Engineering
- Fulbright Scholarship

Iliya Valchev – CTO
Software Development

- M.Sc. Computer Science
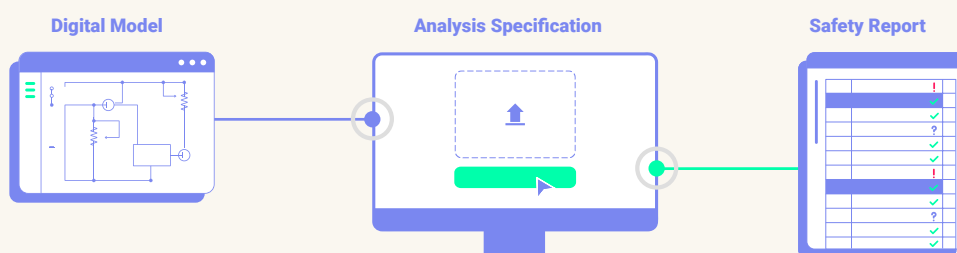- 2nd time founder

Arnold Bitner – CPO
Sales & Marketing, Product Owner

- M.Sc. Information Systems
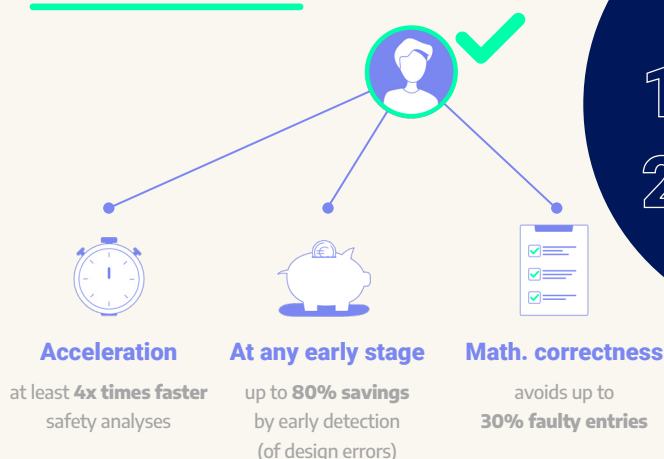- ITK Student Award, Customer Research for i-med Vision e.V.

Mission

modelwise™ is the first company to develop a mathematically complete solution for accelerated and improved safety assessment - **paitron**. Manufacturing companies profit from a significantly shorter time-to-market through seamless integration into the engineer's workflow and tool chain. Because overlooked design flaws cause callbacks and, in worst case, can endanger humans and the environment, it is critical to give engineers instant feedback on the safety of system designs.

Solution

Digital Model → Analysis Specification → Safety Report

- **Seamless integration into the workbench:** paitron allows using existing models of technical systems (e.g. in Matlab, OrCAD, Altium), which are automatically prepared for safety analyses.
- **Industry-specific model-libraries:** To keep the overhead for modelling as low as possible, libraries for fault and component models are included with paitron. The fault modes are selected automatically according to the desired Safety Level.
- **Certifiable:** Tool developed for TCL3 certification.

Customer Value

Acceleration
at least **4x times faster** safety analyses

At any early stage
up to **80% savings** by early detection (of design errors)

Math. correctness
avoids up to **30% faulty entries**

Portfolio:

1. Software Licences **(price on request)**
2. Proof-of-Concept Projects **(price on request)**

Outlook

2021 — 2022 — 2023