

Joseph Thomas Thekkekara

INNOVATION EXPERT • DESIGN THINKER

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Professional Summary

Creative disrupter with skill sets intersecting Mechanical and Production Engineering and Innovation management. Get shit done mentality with a love for startup ventures and fast-paced environments.

Out-of-the-box innovative thinker who can bring in new perspectives when it comes to ideas and solutions. Expertise in scaling and ramping up business verticals and projects in corporate and startup environments.

Core Competencies

- Resilient
- Adaptable
- Detail oriented
- Data driven decisions
- Critical thinker
- Project management
- Collaborator
- Result driven
- Avid learner

Skillsets

01 TECHNICAL SKILLS: - Technology Roadmapping | Rapid Prototyping | Competitor Benchmarking | Cost Engineering | Value Management | System Design

02 BUSINESS SKILLS: - Project Management | Business Process Modelling | Sprint Planning | Customer Journey Mapping | Value Proposition Canvas

03 CERTIFICATIONS: - Enterprise Design Thinking Practitioner (IBM) | Design Thinking Workshop (IDEO) | Value Management I (VDI) | Value Management II (VDI)

Innovation Projects

TU GRAZ SCOOTER PROJECT LEAD FACTORY

- Introduced Internet of Things (IoT) technology to the existing product by analysing future technology trends
- Achieved reduction of product cost by 40% by applying value management principles

AI-POWERED MOUSE

- Identified customer pain points in current rival products and created user persona and developed an ideal product placement strategy
- Led product design of AI-powered mouse by designing for manufacturing and assembly

MAKER SPACE GRAZ SMART LOCKER SYSTEM

- Facilitated ideation and brainstorming to generate a novel concept for locker systems of the future
- Identified the basic customer requirements and facilitated the initial customer acquisition

Recognition



MAKERTHON, GRAZ (2021)

Rotor Design of the Future - Elin Motoren

HACKBAY, NÜRNBERG (2021)

Office of the future (Track challenge winners)



MAKERTHON, GRAZ (2018)

Reinvent Urban Mobility 2030 - Magna Styer

PROGLOVE, MUNICH (2017)

Logistics and Value Adding Award



ER&D HACKATHON, MUNICH (2019)

Augmented reality wearable for indoor navigation

Work Experience

IFT (TU GRAZ) | GRAZ, AUSTRIA

09/2019 – 09/2020

MASTER THESIS - AUTONOMOUS ASSEMBLY IN PRODUCTION SYSTEMS

- Enable production systems to reason and build assemblies or subassemblies autonomously from the CAD data.
- Attain minimum change over time and generate optimal assembly plans from the generated assembly plans.

PROGLOVE | MUNICH, GERMANY

09/2016 – 02/2017

PRODUCTION AND LOGISTICS INTERN

- Build and design business processes and systems to integrate the technological aspects to the business side of the company.
- Build dashboards, reports and KPI's to assist the higher management to define strategies and negotiate contracts.
- Utilized lean startup methodologies to push MVP to market under a strict time constraint.
- Core team member from the initial prototyping batch to scaling up of all business entities.

CHASS ENGINEERING | KERALA, INDIA

06/2014 – 11/2015

PRODUCTION CONSULTANT

- Evaluated production requirements and developed lean manufacturing methods and manufacturing systems to optimize production processes.
- Facilitated business process modelling to streamline various departments and suppliers and ensure project plans and timelines are met.

SPACE RESEARCH ORGANIZATION | INDIA

06/2013 – 06/2014

GRADUATE ENGINEER PROGRAM - PRODUCTION

- Resolved complex manufacturing problems through initial design until product introduction for various launch vehicle builds, mars mission, and the human space program.
- Supported highly cross-functional teams to develop a crew module for the Human Space Program.

Tech Stack

- Autodesk Inventor
- AutoCAD
- MS Office suite
- Trello
- Confluence
- SAP
- Indesign
- Keyshot
- Tableau
- Latex
- Visio
- Solidworks

Education

Technical University Graz, Austria

2021

Master's in Production Science and Management

Nanyang Technological University, Singapore

2018

Master's in Mechanical and Aerospace Engineering (Exchange semester)

Sathyabama University, India

2012

Bachelor's in Mechanical and Production Engineering

Hobbies & Interests



Travelling



Cycling



Photography



DIY projects