

Arshdeep Singh

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LinkedIn: <http://www.linkedin.com/in/12arshdeep>

Nationality: Indian (with valid residence and work permit)

Languages: English (Native), German (Advanced)

EDUCATION

Technische Universität München (TUM) – M.Sc. in Management

Relevant Courses: Simulation & Modeling, Mobility Systems & Policy, Data Analysis, Digital Technologies, **Product Development**, Supply Chain Management, **Innovation Strategy, Technology & Engineering Management**

Master's Thesis: Holistic Approach for the Market Introduction of Advanced Air Mobility (AAM) – **eVTOL segmentation** in Cape Town, Dubai, and Johannesburg

Chandigarh University – Bachelor of Engineering, Maschinenbau

Relevant Courses: Thermodynamics, Fluid Mechanics, Strength of Materials, Machine Elements, **Manufacturing Processes**, Heat Transfer, Vehicle Engineering, Production Engineering, Technical Drawing, **CAD/CAM**, Industrial Engineering, Materials Science

Main Projects: Solar Energy in Mobility, Energy Saving Systems, Automated In-House Logistics Robot

TECHNICAL SKILLS

Simulation & Engineering: Aimsun, SolidWorks, AutoCAD, Mechanical Systems

Programming: Python, C, C++, Basic knowledge of **MATLAB**

Tools: Excel (Advanced), Tableau, **SAP S/4HANA, SAP PLM, JASP, R**

Digital Skills: Jira, Qualtrics, **Social Media Marketing**, Campaign Reporting, **A/B Testing**

Project Management Skills: Agile, **SCRUM**, Stakeholder Management

PROFESSIONAL EXPERIENCE

Reiser Simulation & Training GmbH

05/2024 - 04/2025

Technology & Innovation

Development of comprehensive CAPEX/OPEX, break-even, and go-to-market models for AAM familiarization trainers

Benchmarking of 30+ pilot training centers and rescue providers across 12+ countries for strategic positioning

Preparation of technical and market-related data for management dashboards, reports, and business cases

Support of the product roadmap for VTOL pilot training systems in close collaboration with engineering, simulation teams

Technical University of Munich (TUM) – Chair of Traffic Engineering, Munich, Germany

05/2024 - 08/2024

Research Assistant

Development and calibration of multimodal traffic simulations using Aimsun Next + Python

Integration of VTOL and drone UAM scenarios into realistic urban traffic networks

Analysis of geospatial and statistical datasets for mobility assessment

Validation and calibration using sensor data to ensure reliable results

Delta Orbit GmbH , Munich, Germany

01/2024 - 03/2024

Business Development & Market Analysis

Market and competitor analysis in the field of orbital refueling and space propulsion

Preparation of business reports, technical summaries, and opportunity assessments

Quantum Diamonds

10/2022 - 03/2023

Market Strategy

Analysis of 5+ application sectors for quantum sensors and support of go-to-market strategies

Contribution to investor materials and strategic positioning

HORYZN (Studentische Initiative der TUM)

01/2024 - 01/2025

Market Strategy

Increased LinkedIn reach to over 5,000 followers and supported public relations for a drone launch event

INDUSTRIAL PRACTICE & TRAINING

Sonalika International Tractors Ltd. – 6-Month Industrial Internship (Mechanical Engineering)

Practical insights into tractor manufacturing, transmission and drivetrain systems, assembly and testing processes

Observation of quality control, inspection, and production workflows

Ganga Singh Agro (Swaraj/Mahindra Dealer) – Mechanical & Industrial Practical Training

Insights into maintenance, diagnostics, and repair of agricultural machinery

Support in testing engines, transmissions, and mechanical components

Pioneer Timber Products – Industrial Internship (Mechanical Processing)

Observation of wood processing, boiler systems, industrial machinery, and safety processes

CERTIFICATES

SAP PLM | Generative AI at SAP | Logistics Innovations (SAP S/4HANA) | AAM Scholar