

# 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

<b>Reiser Simulation &amp; Training GmbH</b> <b>Technology &amp; Innovation</b> 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	<b>05/2024 - 04/2025</b>
<b>Technical University of Munich (TUM) – Chair of Traffic Engineering, Munich, Germany</b> <b>Research Assistant</b> 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	<b>05/2024 - 08/2024</b>
<b>Delta Orbit GmbH , Munich, Germany</b> <b>Business Development &amp; Market Analysis</b> Market and competitor analysis in the field of orbital refueling and space propulsion Preparation of business reports, technical summaries, and opportunity assessments	<b>01/2024 - 03/2024</b>
<b>Quantum Diamonds</b> <b>Market Strategy</b> Analysis of 5+ application sectors for quantum sensors and support of go-to-market strategies Contribution to investor materials and strategic positioning	<b>10/2022 - 03/2023</b>
<b>HORYZN (Studentische Initiative der TUM)</b> <b>Market Strategy</b> Increased LinkedIn reach to over 5,000 followers and supported public relations for a drone launch event	<b>01/2024 - 01/2025</b>

## 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