

WISEMAN SIRIRO

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SUMMARY.

Self-driven professional with a strong focus on innovation and sustainability in engineering, technology, and business. Experienced in international and cross-industry environments, adept at solving complex problems with precise and creative solutions. Possesses expertise in analytics, project management, data-driven decision-making, communication, and problem-solving, complemented by a proactive and collaborative mindset. Skilled at combining technical expertise and strategic thinking to support organizational success while continuously developing advanced, high-impact solutions.

EDUCATION.

European Erasmus Mundus Programme (ENISE, PoliTo, NTNU)

Erasmus Mundus Joint Master Degree in Manufacturing 4.0 by Intelligent and Sustainable Technologies (META4.0)

09/2023 – 09/2025

France, Italy, Norway

Norwegian University of Science and Technology (NTNU)

Master of Science in Sustainable Manufacturing, specializing in Digital Manufacturing. [\[LINK\]](#)

09/2023 – 09/2025

Gjøvik, Norway

Polytechnic University of Turin (PoliTo)

Master of Science in Materials Engineering for Industry 4.0. [\[LINK\]](#)

09/2023 – 09/2025

Torino, Italy

École Centrale de Lyon (ENISE).

Master of Science in Mechanical Engineering. [\[LINK\]](#)

09/2023 – 09/2025

Saint-Étienne, France

Shanghai Jiao Tong University (SJTU)

Emerging Semiconductor Devices and Sustainable Innovations (Course ESDTSI). [\[LINK\]](#)

06/2024 – 07/2024

Shanghai, China

European Institute of Leadership and Management (EILM)

Mini-MBA (Master of Business Administration) [\[LINK\]](#)

11/2022 – 11/2023

Dublin, Ireland

North China Electric Power University (NCEPU)

Bachelor of Science in Mechanical Engineering. [\[LINK\]](#)

09/2019 – 06/2023

Beijing, China

CERTIFICATIONS.

Automation	Risk Management	Python Programming	Cybersecurity	Structured Query Language (SQL)
Data Science	Quality Control	Fundamentals of Lean	Robotics and Controls	Good Manufacturing Practice (GMP)
Data Analytics	Project Management	MATLAB Fundamentals	Consultant Program	McKinsey & Company Forward Program
Circular Economy	Machine Learning	Software Engineering	Project Coordination	Operations Industrial Engineer

EXPERIENCE.

Manufacturing Engineer (Intern)

DIEGO.

10/2025 – 10/2025.

London, United Kingdom.

- Completed a hands-on training project reviewing the full bourbon production process for the supply chain and manufacturing teams using SAP and Excel. Analyzed deviations from standard process parameters and identified their underlying causes using Minitab. Evaluated downtime data and developed a strategic plan to improve operational efficiencies as part of a continuous improvement mindset using Tableau, while tracking project progress and managing team collaboration with Jira.

Project Manager (Intern)

SIEMENS MOBILITY.

09/2025 – 09/2025.

Munich, Bavaria, Germany.

- Completed a project management initiative focused on KPI development and dashboard management by executing project activities using Microsoft Project and Smartsheet, while overseeing scope, schedule, and budget through SAP, Oracle, and Microsoft Dynamics 365. Analyzed performance data and created dashboards in Power BI and Excel. Strengthened customer and stakeholder alignment through Outlook and Microsoft Teams, and carried out formal risk assessments utilizing Primavera Risk and ARM.

Agentic AI Intern

NAPBLOG.

08/2025 – 10/2025.

Dublin, Ireland.

- Built and implemented AI-driven workflows using n8n, creating and optimizing custom integrations and marketing automations across platforms such as Zapier, Salesforce, and other CRMs. Collaborated with marketing, development, and content teams to streamline processes, improve operational efficiency, and support ethical, human-centered digital marketing campaigns. Assisted in maintaining documentation and provided technical insights to enhance internal systems.

Operations Industrial Engineer (Intern)

SIEMENS MOBILITY.

07/2025 – 07/2025.

Munhall, Pennsylvania, United States.

- Conducted detailed time study analysis for a key assembly process of the Aurora Express high-speed train using AutoCAD and MTM to identify bottlenecks and inefficiencies. Proposed and developed data-driven layout changes to the assembly line to improve workflow, reduce delays, and enhance overall production efficiency using Arena Simulation and Excel. Applied industrial engineering methods to optimize manufacturing processes in line with sustainability and performance targets, collaborating with engineering teams and leveraging Siemens NX and Minitab to implement improvements with immediate and long-term benefits.

Data Analyst Internship Programme.

04/2025 – 06/2025.

UPTRAIL.

London, United Kingdom.

- Built strong technical skills in data analysis, reporting, and business intelligence. Analyzed real-world datasets to interpret market trends and evaluate business performance. Gained hands-on experience with Python, SQL, Power BI, Tableau, and Excel for data manipulation and visualization. Developed a solid understanding of data governance, regulations, and compliance standards. Designed interactive dashboards to communicate insights effectively to stakeholders. Collaborated with cross-functional teams to translate data insights into actionable business strategies.

Data Analytics and Quality Control Intern.

01/2025 – 04/2025.

DELOITTE.

Sydney, Australia.

- Performed simulations involving practical training in data analysis and forensic technology. Created interactive dashboards using to effectively communicate client insights. Utilized Excel to classify, organize analyze data to support decision-making.

Hovercar Startup (Operations / Manufacturing) Intern.

11/2024 – 04/2025.

NEXUS NOVA INNOVATIONS.

Des Moines, Iowa, United States.

- Led mechanical design, specification, project coordination, process mapping, planning and engineering efforts for two key prototype iterations, achieving a 10% improvement in design efficiency and supporting accelerated product development. Gained hands-on experience with CAD tools such as SolidWorks for 3D modeling and design optimization.

ESG, Solar & Hydrogen Supply Chain, Procurement and Investment Research Intern.

10/2024 – 03/2025.

GREENTREE CAPITAL AND ASSET MANAGEMENT.

Shanghai, China.

- Researched solar and hydrogen investment projects using Excel, MATLAB, and Python, performing analyses, cost-benefit evaluations, forecasting, financial modeling, and supply chain logistics, and conducting risk assessments and tax incentive evaluations. Supported more than five projects by optimizing costs 5 % and aiding funding decisions. Participated in HSE audits and quality assurance.

Pharmaceutical Research and Development (R & D) Intern.

02/2023 – 07/2023.

BEIJING TIDE PHARMACEUTICAL CO., LTD.

Beijing, China.

- Analyzed clinical trial data using SAS, R, and Python, improving experimental drug production efficiency by 10 %. Collaborated with teams to ensure regulatory compliance, prepared technical reports, estimated raw material costs, mapped the value chain to identify efficiency gains, and applied analysis planning techniques to streamline processes and support in vitro studies.

Energy Research and Development (R & D) Intern.

06/2022 – 12/2022.

BEIJING XINYUAN ENERGY CO., LTD.

Beijing, China.

- Conducted energy production data analysis using MATLAB, Python, Simulink, and HOMER to optimize operations. Collaborated with cross-functional teams to ensure regulatory and safety compliance. Prepared technical reports and presentations. Supported planning, modeling, technical development, design, installation follow-up, testing, and documentation of renewable energy manufacturing systems, including electrical and automation components.

PROJECTS.

- Modelling and Simulation for Sustainable Manufacturing using Discrete Event Simulation, System Dynamics, and AnyLogic.
- Life Cycle Assessment of electric vehicle materials – (Aluminium, CFRPs, steel, composites, ceramics and copper).
- Pharmaceutical Material Science and Manufacturing using ANSYS, MATLAB, and AI-driven Machine Learning.
- Flexible Automation, Artificial Intelligence, and Robot Project using Python, Jupyter, and P-Rob 2 Robots.
- Environmental Impact Assessment of Carbon Fiber-Reinforced Polymer Fender using SimaPro.
- Mechanical Design for Solar Air Collectors using SolidWorks, Simulink, and Microsoft Project.
- Additive Manufacturing of Sustainable and Contextual Merchandising for Meta 4.0.
- Techno-Economic Assessment of Solar PV System using PV*SOL and PVSyst.

LANGUAGE SKILLS.

English (Native)

Norwegian (B2)

French (B1)

Chinese (B1)

Danish (A1)

BACHELOR & MASTER THESIS PROJECTS.

- Master Thesis: Sustainability Assessment and Enhancement of Aluminum Production for Electric Vehicle (EV) Manufacturing Using Life Cycle Assessment (LCA) and Predictive Modeling. [\[LINK\]](#)
- Bachelor Thesis: Designing a space heating system with a solar air collector. [\[LINK\]](#)

TECHNICAL SKILLS AND COMPETENCIES.

- **Project and Enterprise Systems:** ERP Systems (SAP, Oracle, IFS), STELLA, Trello, Asana, Confluence, Jira, Microsoft Project, PLM Software (Teamcenter, Windchill, ENOVIA), Process Documentation, Process Improvement, Workshop Facilitation, Project Coordination.
- **Data Analysis and Statistics:** Power BI, Tableau, Spotfire, Grafana, Google Analytics, Adobe Analytics, R, MATLAB, Jupyter, Advanced Excel (VBA, Power Query), Data Science, Machine Learning, Artificial Intelligence, Statistical Analysis, Forecasting, Data Visualization, Data Management, Data Tracking, KPI Tracking, Quality Metrics, Reporting & Documentation.
- **Programming Languages:** SQL, JavaScript, C#, Python Libraries (Pandas, NumPy, Matplotlib, Seaborn, scikit-learn, TensorFlow, PyTorch), R, C++, Visual Basic, Microsoft Visual Studio.
- **IT and Office Tools:** Microsoft Dynamics 365, Excel, PowerPoint, Word, Outlook, Teams, Visio, Access, OneNote, Google Workspace (Gmail, Docs, Sheets, Drive, Calendar), Adobe, Miro, Data Entry, Report Writing, Compliance Documentation, Process Mapping.
- **Engineering and Simulation Software:** FEA (ANSYS Additive Suite, ABAQUS, NASTRAN, Simulink), CFD (OpenFOAM, COMSOL Multiphysics, Fluent, STAR-CCM+), Process Simulation (ASPEN Plus, AnyLogic, gPROMS, HYSYS), Thermo-Calc, Granta Software, LCA (SimaPro, GaBi, OpenLCA), (LabVIEW, OriginLab, ImageJ), HVAC Simulation / Design (Trane Trace, Carrier HAP, EnergyPlus).
- **CAD and CAM Software:** AutoCAD, SolidWorks, CATIA, CREO, Siemens NX, Autodesk Inventor, Fusion 360, Rhino 3D, Onshape.
- **Quality Assurance and Compliance:** GMP, GDP, Quality Management, Quality Auditing, Quality Control, Quality Systems, Root Cause Analysis, SPC (Statistical Process Control), Continuous Improvement, Six Sigma, Lean Principles, 5S, Kaizen, Value Stream Mapping (VSM), Lean Manufacturing, Lean Process, Lean Initiatives, Business Process Management, Deviation Management, Risk Management.
- **Manufacturing and Quality Systems:** SAP QM, SAP EWM, Oracle WMS, TrackWise, Microsoft Dynamics, Manufacturing Execution Systems (MES), Manufacturing Process Improvement, MSA (Measurement System Analysis).
- **Automation and Process Control:** SCADA, n8n, Zapier, CRM, PLC Programming (Siemens, Allen-Bradley), PID Tuning and Optimization.
- **IT/OT Integration and Virtualization:** VMware, AWS, Microsoft Azure, Google Cloud, PROFINET, Modbus, OPC UA, IoT Solutions, GitHub, Siemens Digital Industries Software, Microsoft Copilot, Generative AI, AR/VR, Robotics, Building Management Systems (BMS).
- **Soft Skills:** Teamwork, Collaboration, Effective Communication, Adaptability, Problem Solving, Quick Learner, Initiative, Decision-Making, Stakeholder Engagement, Result-Oriented, Strategic Thinking, Attention to Detail, Resilience.

MANAGEMENT AND LEADERSHIP SKILLS.

- Supervised 10 operators; achieved 20% fewer defects and higher productivity.
- Led process improvement initiatives in manufacturing and retail environments.
- Mentored interns and junior team members, fostering skill development and academic growth.

VOLUNTEERING.

Point Foundation – BIPOC Scholars Community: Engaged in mentoring, advocacy, and peer-support initiatives.

Global Youth Biodiversity Network: Promoted biodiversity conservation and sustainability awareness campaigns.

NTNU University Buddy & Mentorship Program: Helped incoming international students adapt to academic and cultural life.

Global Citizenship Education Development (GCED): Led workshops promoting global awareness, cross-culture and sustainability.

European Erasmus Mundus Association: Assisted in organizing academic and cultural integration activities for international students.

CONFERENCES AND SEMINARS.

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| - Global Youth Adaptation Summit - Netherlands. | - 10th Youth Leadership Workshop on Global Citizenship - Korea |
| - Global Citizenship Education Conference. | - 7th Youth Leadership Workshop on Global Citizenship - Korea |
| - EU-US Defense and Future Forum. | - 28th International Congress on Sound and Vibration (ICSV) - Singapore. |

NETWORKS AND MEMBERSHIPS.

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| - Point Foundation - BIPOC Scholars Community. | - Caritas Ressurssenter Norway. | - LIN - Ligestilling, Inkluderende og Nettverk |
| - Harvard University - Aspire Leaders Program. | - World Economic Forum - Oslo. | - The Salvation Army Rodeløkka, Oslo |
| - Society of Mechanical Engineers (NCEPU). | - Rotaract Oslo International. | - Netball Club Oslo |
| - European Erasmus Mundus Association. | - Global Youth Biodiversity Network. | - Honor Society. |

REFERENCES.

- Professor Geir Ringen geir.ringen@ntnu.no +4773593816 Master's Thesis Main Supervisor – NTNU, Norway.
- Professor Niels Peter Østbø niels.peter.ostbo@ntnu.no +4741547942 Meta4.0 Local Supervisor - NTNU, Norway.
- Professor Cédric Courbon cedric.courbon@enise.fr Meta4.0 Programme Coordinator - Centrale Lyon, France.