

# Brandon Lewis

AI Product Manager | Data Platforms, Automation & Industrial Technology

+49 1512 956 5727

Nationality: US-American

Aufenthaltserlaubnis (DE)

Bilingual (Englisch/German C1)

lewis.brandonk@gmail.com

[www.linkedin.com/in/lewisbrandonk](http://www.linkedin.com/in/lewisbrandonk)

[www.cyranothebard.github.io](http://www.cyranothebard.github.io)

Lindau, Bayern



## PROFESSIONAL SUMMARY

Technical Product Manager with experience leading AI, analytics, automation, and data initiatives across manufacturing, healthcare, financial services, and energy management. Combines hands-on expertise in machine learning and industrial systems with product strategy, stakeholder management, roadmap development, and cross-functional delivery.

Experienced translating complex business challenges into scalable data products, automation solutions, and AI-enabled workflows. Proven ability to align engineering teams, business stakeholders, and executive leadership around measurable outcomes and long-term product strategy.

## SELECTED PRODUCT PORTFOLIO

### AI-Powered Engineering Knowledge Assistant

Designing a retrieval-augmented engineering assistant that enables engineers, maintenance personnel, and operations teams to rapidly access technical documentation, procedures, and institutional knowledge through natural language interaction.

#### Product Focus:

- Knowledge discovery
- User workflow optimization
- Engineering productivity
- AI-assisted decision support

**Technologies:** LangChain, Vector Databases, LLMs, AWS, Python

### Industrial IoT-Data Platform

Designing a scalable industrial data platform integrating machine telemetry, quality systems, maintenance workflows, and operational analytics into a unified data environment.

#### Product Focus:

- Platform strategy
- Data accessibility
- Operational visibility
- AI-ready infrastructure

**Technologies:** AWS, Databricks, Spark Streaming, SQL, dbt, MQTT, OPC-UA

### Predictive-Maintenance-Plattform

Developed a predictive maintenance solution using multi-sensor telemetry and Hidden Markov Models to estimate equipment health and remaining useful life.

#### Product Focus:

- Operational decision support
- Reliability improvement

## CORE COMPETENCIES

### Product Management

Product Strategy, Product Discovery, Roadmap Development, Requirements Definition, Stakeholder-Management,

### AI & Data Products

Machine Learning, Analytics Platforms, Generative AI Applications, Predictive Analytics, Data Products, AI Enablement

### Leadership

Cross-Functional Leadership, Executive Communication, Business Case Development, Change Management

### Technical

Python, AWS, Databricks, SQL, Jira, Git, Computer Vision, Workflow Automation

## EDUCATION

### University of Washington, Seattle, USA

*MSc Information Management*

September 2024 - August 2025

Concentrations: Consulting, Data Science, Product Management

### Georgia Institute of Technology, Atlanta, USA

*BSc Polymer & Fiber Engineering*

August 2006 - December 2010

Concentrations: Materials for consumer goods, manufacturing, quality control

Minor: Chinese

Study abroad and engineering internship in Shanghai, China (2010)

- Maintenance optimization
- Data-driven asset management

**Technologies:** Python, FastAPI, AWS, scikit-learn, hmmlearn, n8n

## PROFESSIONAL EXPERIENCE

### Trinity Consultants, Seattle, USA — *Technical Lead Consultant*

Oktober 2024 - Dezember 2024

Led technical planning and solution strategy for an enterprise energy-management initiative supporting a pharmaceutical client.

- Defined implementation roadmap and phased delivery strategy for an integrated energy-management platform
- Developed business cases and forecasting models supporting investment planning and operational decision-making
- Coordinated stakeholder requirements spanning sustainability, operations, finance, and compliance functions
- Designed ML-assisted invoice validation workflows to reduce manual processing effort

### Denali Advanced Integration, Seattle, USA — *Industrial AI Solutions Engineer*

Januar 2023 - Juli 2024

Led customer discovery, requirements gathering, and solution architecture for industrial AI and automation initiatives across manufacturing environments.

- Defined solution requirements and success metrics for machine-vision, quality-control, and industrial AI applications
- Developed business cases and ROI analyses supporting automation investments ranging from \$500K–\$3M
- Coordinated cross-functional teams spanning software development, automation engineering, procurement, and field deployment
- Served as primary customer-facing technical stakeholder throughout project planning and implementation
- Guided project delivery from opportunity qualification through deployment and customer acceptance

#### Selected Projects:

- Amazon Print-on-Demand automated inspection platform
- Airbus computer-vision quality validation system

### Kauffman Hall, Seattle, USA — *Data Scientist, Healthcare Analytics*

April 2022 - Oktober 2022

Developed healthcare analytics products supporting operational and financial decision-making for hospital systems.

- Built large-scale analytics pipelines using Databricks and PySpark
- Automated recurring reporting products generating approximately \$130K in annual productivity savings
- Identified and resolved data-quality issues impacting business reporting and analysis

## PROFESSIONAL DEVELOPMENT

### Goethe Institute, Munich *Intensive German, B2-C1 Levels*

January 2026 - May 2026

Preparation for Goethe-Zertifikat C1, June 2026

30–40 hrs/week full-time study; Focus on on workplace and technical competency in German

### Independent Study, Data Science *MOOCs and non-profit consulting*

June 2017 - September 2018

Foundation for later professional development and applications of ML industrial automation solutions

## INTERNATIONAL EXPERIENCE

**Germany:** Demonstration of industrial ML inspection solutions at Hannover Messe (2024)

**Netherlands:** 6-moth project deployment, Vanderlande (2012)

**China:** Promotion from Engineering Intern to Foreign Intern Manager, Shanghai (2010)

## TEACHING & COMMUNITY-BUILDING

- Founded and led Data Science Community of Practice, BlackRock (2019–2022)
- Data Science Instructor, Flatiron School (2018–2019)
- STEM Mentor for disadvantage students, STEAMTruck (2018)

## LANGUAGES

Englisch - native

German - C1 (Goethe-Zertifikat)

Spanish - C1

French, Chinese - B2

## **BlackRock Financial Inc., Atlanta, USA — *Product Data Scientist***

September 2019 - Januar 2022

Supported enterprise automation and analytics initiatives through product development, stakeholder engagement, and data-driven decision support.

- Redesigned automation value-tracking methodology, increasing documented annual business impact from \$250K to over \$5M
- Built centralized reporting and analytics products supporting executive decision-making
- Improved AI chatbot performance through NLP-based behavioral analytics and user-satisfaction measurement
- Partnered with stakeholders across business and technology functions to prioritize automation initiatives
- Founded and led a Data Science Community of Practice with more than 100 members

## **Early Industrial Automation Experience**

Delivered automation, machine vision, robotics, motion control, and industrial engineering solutions across manufacturing, logistics, medical device, and consumer-products industries.

## **Gibson Engineering, Bridgeport, USA — *Automation Sales Engineer***

Februar 2015 - Juni 2017

## **Emerson/Branson Ultrasonics, Danbury, USA — *Application Engineer***

Januar 2013 - Februar 2015

## **Vanderlande Industries, Atlanta, USA — *Project Engineer/Sales Engineer***

Juli 2011 - Januar 2013

## **REFERENCES**

**Mr. Mike Dieterich** — Sustainability Lead bei Trinity Consultants.

[mike@miked Dieterich.com](mailto:mike@miked Dieterich.com)

**Mr. Justin Long** — Director of Industrial Automation, Denali Advanced Integration.

[jlong@denaliai.com](mailto:jlong@denaliai.com)

**Mr. Reid Stevens** — Account Executive, Denali Advanced Integration

[rstevens@denaliai.com](mailto:rstevens@denaliai.com)

**Mr. Tony Jones** — Ehemaliger VP Process Automation, BlackRock Financial, Inc.

[jamesanthonyjones@outlook.com](mailto:jamesanthonyjones@outlook.com)