### Luke Profio MBA, MEng, CISSP, PfMP, ACP (414) 396-0525

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Customer-focused AI/ML Program and Product Manager with a proven track record of building and scaling innovative technical solutions that deliver measurable impact. With extensive experience in leading the end-to-end product lifecycle, I specialize in leveraging AI/ML, user-centered design, and iterative methods to build high-quality products that align business goals with user needs. At Komatsu North America, I lead the global planning, integration, and optimization of ServiceNow ITSM, ITOM, and SPM platforms - partnering with AI/ML teams to drive innovation and deliver measurable uptime, cost-reduction, and productivity gains to over 10,000 users globally. Key achievements include developing the roadmap and delivery strategy for UW Health's AI/ML initiative - which automated clinical workflows to reduce costs and clinician burnout while enhancing user experience; leading an AI/ML research initiative for Workday that identified 8 strategic partnerships to reduce costs, mitigate enterprise risk, and enhance the user experience for 70M+ users globally; building and scaling a SaaS eCommerce platform that redefined how creators expand their reach and monetize their artwork through A/B testing, user feedback, and analytics to increase customer retention; co-leading the global development and launch of 2 pharmaceutical products with a \$20M+ budget, boosting client market share and improving ophthalmology patient outcomes; and advancing cardiovascular medicine by developing regenerative medicine products in collaboration with a global research team of 18 associates, co-authoring literature cited by 30+ academic and industry organizations including the American Heart Association. My superpower is translating technical ideas into actionable product requirements, enabling engineering teams to build the right solutions while bring cross-functional teams along the way, so that we all get smarter.

Biomedical Informatics | AI/ML Engineering | Neuroscience | Strategy

Stanford University School of Engineering, Graduate Certificate in Artificial Intelligence, Machine Learning Carnegie Mellon University, MBA in Technology Strategy, Product Management UT-Austin, MSc in Artificial Intelligence, Mathematical Science UC-Boulder, MEng in Computational Data Science, Engineering UW-Madison, BSc in Biological Science, Genetics

#### PROFESSIONAL EXPERIENCE:

#### Global AI/ML Program & Product Manager Komatsu North America

2025 – Present

Managing the planning, delivery and continuous improvement of our ServiceNow ITSM, ITOM and SPM products, partner with the AI/ML team to define, validate and deploy enterprise solutions, and focus on delivering clear, measurable business outcomes for over 10,000 users globally.

- Lead integrations between ServiceNow ITOM and enterprise platforms (SAP, Palantir), increasing asset discovery coverage by and reducing unplanned downtime.
- Deploy ServiceNow Strategic Portfolio Management (SPM) to streamline project intake and approvals, cutting cycle time and boosting on-time delivery.
- Partner with stakeholders to surface and prioritize high-value AI/ML use cases, unlocking annual savings through predictive maintenance and automation.
- Develop and maintain a core AI/ML infrastructure roadmap, reducing model deployment time and standardizing data-science practices.
- Define and track key metrics—MTTR, self-service adoption, model performance and ROI—to drive continuous improvement and ensure each release delivers impact to the business.

#### Citizen AI/ML Engineer Komatsu North America

2025 – Present

- Architect and build end-to-end, cloud-enabled AI/ML pipelines—from data ingestion and feature engineering to model delivery—to scale to enterprise data volumes and meet performance SLAs.
- Automate deployment, versioning, monitoring and retraining of models using CI/CD, container orchestration (Docker / Kubernetes) and MLOps tooling to reduce production downtime.
- Collaborate with AI/ML engineering, DevOps and product teams to translate research prototypes into secure, API-driven services that integrate with business applications and meet stakeholder requirements.
- Enforce data governance, model explainability and audit-ready documentation, tracking key metrics (accuracy, latency, bias) and running A/B tests or hot-fixes.
- Continuously research new algorithms and extend internal AI/ML libraries, running PoCs and knowledge-sharing sessions to keep the organization innovative.

### Consulting Technical Portfolio & Product Director, CODAmarket Co-Founder CODAworx

2021 – Present

Built and scaled a SaaS eCommerce platform that connects art buyers and commissioners with creators, redefining how artists expand their reach and monetize their artwork.

- Led the end-to-end design, development, and scaling of the platform with a team of 8+ associates.
- Significantly increased customer retention through targeted outreach and self-service user onboarding and

training.

- Optimized transaction efficiency and enhanced user experience by redesigning inventory management systems using A/B testing and user analytics.

### Fractional Chief Technology Officer Insightica.ai LLC

2017 – Present

- Leading the cross-functional delivery of AI/ML, biomedical informatics, and cybersecurity solutions across Fortune 500 and nonprofit organizations, accelerating innovation and reducing time-to-ROI.
- Translating complex stakeholder needs into product roadmaps and scalable architectures that align with mission-critical business objectives.
- Overseeing multi-team agile delivery cycles, managing scope, cost, and risk while ensuring high client satisfaction and measurable outcomes.
- Driving strategic portfolio planning and governance, enabling data-informed prioritization and resource allocation to boost operational efficiency across product streams.

### **Consulting AI/ML Research Scientist**

#### Graduate Teaching Assistant, AI/ML University of Texas at Austin

2024-Present

- Conducting office hours and tutoring sessions with students to ensure their success in AI/ML courses.
- Grading assignments and providing constructive feedback, helping students understand their strengths and areas for improvement.
- Collaborating with faculty to improve course materials, integrating the latest research and instructional methods.
- Mentoring students and fostering an inclusive learning environment, encouraging curiosity, critical thinking, and a passion for AI/ML.

### Consulting AI/ML Program & Product Manager Workday

2024 - 2025

- Contributed to Workday's AI/ML product roadmap by identifying scalable solutions that reduce costs, mitigate

enterprise risk and enhance the user experience for 70M+ users globally.

- Developed a comprehensive market map of relevant AI/ML solutions, identifying 8 high-yield strategic partnerships aligned with Workday's objectives.
- Led a 6-month research initiative in collaboration with design, engineering, and leadership teams to iteratively develop artifacts, gather feedback, and align on prioritization.
- Presented findings to cross-functional stakeholders, enterprise clients, and customers, incorporating feedback to increase visibility and engagement with Workday's initiatives.

## Senior AI/ML Program & Product Manager UW Health Medical System

2023 - 2025

Built and scaled healthcare IT products (Best Buy Health RPM, Apple Health, Epic Systems, Azure OpenAI, UiPath RPA, Stryker, Vocera, MacOS, GenAI, AI/ML) to reduce clinician burnout, costs, enterprise risk, and improve the quality of healthcare.

- Developed and prioritized an AI/ML product roadmap featuring 50+ high yield use cases for Epic's EHR system through user story mapping, OKRs, market research and stakeholder engagement.
- Managed the creation of a quantitative user feedback pipeline in Databricks and analyzed qualitative survey data, enabling faster iterations and enhanced AI/ML tools.
- Launched 3 GenAI products to automate clinical workflows, effectively reducing clinician burnout and enhancing user experience.
- Conducted user interviews and usability studies to drive iterative design improvements, prompt engineering and resolve pain points, increasing user satisfaction scores.
- Mentored team members on AI/ML tools, product management, and PMO best practices (e.g. ServiceNow SPM), boosting team productivity.

#### Consulting Computational Neuroscientist, AI/ML Architect Manifold Research

2023 - 2025

Built and scaled AI/ML products that reduced costs and enhanced the operability of emerging technologies for academic and enterprise organizations.

- Recruited and led a cross-functional global research team, leveraging agile methodologies to develop and launch open-source AI/ML products that cut costs through model optimization and innovative research methods.
- Hosted bi-weekly technical seminars and provided regular updates on open-source initiatives, doubling the core team size.
- Boosted community engagement by 60% in under 6 months through targeted research initiatives and strategic communication efforts.

# Consulting AI/ML Program & Product Manager Covalent Metrology

2025

- Built an AI/ML product strategy that integrated stakeholder goals with market feedback, improving cross-team coordination and product development.

## Consulting Lead AI/ML Portfolio & Product Manager JASCI Software

2022 - 2024

- Led full-cycle WMS and WCS implementations for Fortune 500 clients with up to 10X efficiency improvement.
- Delivered 8 major WMS/WCS implementation projects resulting in significant client ROI and operational gains.
- Reduced picking time by 70% through WCS integration, increased warehouse throughput by 300% via automation.
- Supervised industrial engineering team and served as project lead for multi-million-dollar logistics solutions.
- Designed scalable, repeatable WMS implementations to support rapid customer onboarding and growth.
- Spearheaded robotic and automated warehouse system integrations (AMRs, conveyors, WCS layer).
- Conducted in-depth data analysis using complex SQL queries to produce performance and cost benchmarks.

#### Associate Technical Project Manager Labcorp

2021 - 2022

- Co-led product launches and compliance initiatives for high-budget pharmaceuticals, ensuring regulatory compliance and boosting client market share.
- Co-led cross-functional teams of 35+ associates to launch 2 pharmaceutical products with a \$20M+ budget,

boosting client market share.

- Managed a \$200K+ global investigator training initiative, tailoring materials based on client feedback and
- achieving high satisfaction scores.
- Implemented and optimized compliance tracking processes that reduced audit preparation time and increased global regulatory compliance.

## Technical Project Manager, Researcher UW-Madison

2016 - 2021

- Co-led the development of regenerative medicine products aimed at improving the effectiveness and quality of heart disease treatment.
- Co-led a global team of 18 researchers and co-authored a publication cited by 30+ academic and industry organizations including the American Heart Association, advancing cardiovascular medicine, and improving patient outcomes.
- Utilized agile methodologies to enhance the efficiency of cardiac tissue regeneration, paving the way for pre-clinical product development and commercialization.
- Developed data analytics workflows using instrumentation software and programming, reducing processing time while improving data accuracy and quality.

#### Associate Research Scientist Merck Group

2019 – 2021

- Developed and optimized pharmaceutical production protocols, applying informatics and analytical chemistry to support the formulation and scale-up of new chemical artifacts.

- Executed high-precision chemical manufacturing procedures in both lab-scale and large-scale environments, ensuring compliance with GMP and internal quality standards.
- Contributed to method development and analytical evaluations across various stages of drug production, driving process improvements and enhanced reproducibility of products.
- Participated in safety audits, cross-functional documentation updates, and knowledge transfer efforts—helping onboard new personnel and standardize best practices in pharmaceutical production.

### **Consulting Chief Technology Officer Gallify**

2017 - 2019

- Led the development and deployment of blockchain-integrated AR features using Solidity, Apple ARKit, Object Capture API, and GCP, enabling real-time NFT creation and interactive gallery experiences.
- Oversaw 6 concurrent projects across 4 engineering teams of 10+ associates, driving on-time delivery and aligning product milestones with strategic objectives.
- Served as a Scrum Master and the primary technical decision-maker, accelerating development cycles and streamlining team workflows through structured sprints and async updates.
- Built and scaled internal operations by leading recruitment, creating hiring packages, and implementing financial/resource planning tools, contributing to team growth and operational efficiency.

<u>Non-Technical Skills:</u> Portfolio Management, Program Management, Product Management, Project Management, Communication, User Experience (UX), Competitive Analysis, Product Strategy, Market Research, Product Launch, Product Vision, Cross-Functional Team Leadership, Business Analytics, OKRs, KPIs, Go-to-Market

Technical Skills: Python, R, AI/ML, Data Engineering, SQL, APIs, Keras, TensorFlow, PyTorch, NLP, REST Integrations

Tools: Jira, Confluence, Tableau, Databricks, Microsoft Azure, Google Cloud, AWS, Figma, Power BI, Tableau

<u>Volunteering:</u> U.S. Technology Policy Committee Member at the Association for Computing Machinery; Founder of AI@CMU; Eagle Scout; Volunteer at UW Health; Volunteer at the National Alliance on Mental Illness; Member of the OpenAI Forum

<u>Certifications:</u> Certified Information Systems Security Professional (CISSP), Certified Scrum Product Owner (CSPO), Portfolio Management Professional (PfMP), Program Management Professional (PfMP), Project Management Professional (PMP), Agile Certified Practitioner (ACP), Certified Scrum Master (CSM), Carnegie Mellon University Software Engineering Certificate, UW-Madison Regenerative Medicine Certificate

Awards: Carnegie Mellon University David A. Tepper Academic Merit Scholarship, UC-Boulder Academic Merit Scholarship, UT-Austin Academic Merit Scholarship, Albert J. & Adelaide E. Riker Academic Merit Scholarship, Sprint Forward Academic Merit Scholarship, William F. Vilas Academic Merit Scholarship, Qualtrics Academic Merit Scholarship, Distinctive Scholastic Achievement, Dean's List, Wisconsin Music Teacher's Association Exemplary Soloist & 1st Place, National Federation of Music Clubs Exemplary Soloist & 1st Place, Milwaukee Music Teacher's Association 1st Place, Wisconsin State Music Association 1st Place

<u>Organizations:</u> CMU Tech & Entrepreneurship, Carnegie Mellon University Alumni Association, National Eagle Scout Association, Product @ CMU, Project Management Institute, Scrum Alliance, Wisconsin Alumni Association

<u>Test Scores:</u> Wechsler Adult Intelligence Scale (145, 99.9<sup>th</sup> Percentile), American College Testing (ACT, 34, 99<sup>th</sup> Percentile), Medical College Admissions Test (MCAT, 515, 91<sup>st</sup> Percentile)

<u>Languages:</u> English (Native), Italian (Elementary), Latin (Elementary)

<u>Hobbies:</u> Biking, Hiking, Reading, Video Games, Travelling