

Matthew Manske

Technical Fellow

🌐 New York, NY

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SUMMARY Software engineering leader focused on practical systems architecture and technical management across the manufacturing, healthcare, and startup sectors. I specialize in leading mixed teams of developers, scientists, and offshore partners to solve difficult technical problems and build reliable software. My past work ranges from clinical assessment applications and automated testing infrastructure to factory-scale robotic assembly systems.

SELECT EMPLOYMENT



Current
(6 yr, 9 mo)

Divergent

divergent.us

TECHNICAL FELLOW, PLATFORM SOFTWARE

Serves as a strategic technical authority shaping the long-term software architecture for highly scalable, next-generation manufacturing platforms. Guides cross-functional teams of developers, scientists, and engineers to build advanced applications that automate and streamline wide-ranging production workflows.

SENIOR DIRECTOR, PLATFORM SOFTWARE

Directed several small teams of developers, QA & scientists in various research & development applications spanning generative topology optimization, robotic assembly planning & additive manufacturing materials exploration.

DIRECTOR, MES SOFTWARE R&D

Spearheaded the strategic planning, growth, and development of internal manufacturing software platforms. Initiated and launched several cross-functional projects to drive automation across the production factory.

PLATFORM DEVELOPMENT MANAGER

Led multiple internal applications to support diverse research and development projects, while managing a small team of in-house developers.



Dec 2019
(1 yr, 1 mo)

ProdPerfect

prodperfect.com

SENIOR PLATFORM MANAGER

Led the design and development of platform applications for autonomous, self-managed end-to-end testing and reporting. Architected data-ingestion systems to automatically discover user workflows, building the underlying infrastructure for self-healing, CI/CD-integrated test automation.



Miro Health

mirohealth.com

Jan 2018
(1 yr, 6 mo)

SENIOR FRONTEND ENGINEER | **ENGINEER MANAGER**

Developed a suite of HIPAA compliant applications to assist in clinical neurological, psychiatric, & cognitive assessments. Managed an offshore team & assisted in hiring & onboarding in-house developers.



Polymathic

ACQUIRED BY DEVMYND

manske.me/polymathic

Oct 2015
(5 yr, 3 mo)

PARTNER | **CTO**

Built and led a product team of developers and support staff, driving product research and development, code architecture, and project management decisions for numerous startup and intrapreneurial ventures.

EDUCATION



University of Wisconsin – Madison

wisc.edu

May 2010

B.SC. | **FINE ARTS – WOODWORKING**



Johns Hopkins University

jhu.edu

May 2006

AUDIO ENGINEERING | **JAZZ PERFORMANCE**

SOFTWARE PATENTS



Assembly sequence generation

US-12314036-B2

May 2025
(Granted)

Having a flexible robotic system layout that allows for the assembly of any structure creates a challenge in finding an optimal sequence of assembly. In some examples, the optimal sequence of assembly may provide the highest robot utilization, the shortest cycle time, the greatest assembly accuracy of the final assembly, or any combination thereof. The processing system disclosed herein may be configured to generate assembly sequences for a plurality of parts and determine an optimal assembly sequence from the generated assembly sequences by comparing the generated assembly sequences.