

Matthew Manske

Sr. Director of Platform Software

🌐 Newark, NJ

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SUMMARY Experienced software director with a strong background in leading interdisciplinary teams in application development and R&D. Skilled in driving automation, platform growth, and using Agile methods. Expertise in managing in-house and offshore teams to deliver effective solutions across technologies and industries. Focused on operational excellence and team development.

MANAGEMENT **AGILE** **MENTORSHIP** **ASSESSMENTS** **COLLABORATION** **STRATEGIC PLANNING**
TECHNICAL **ARCHITECTURE** **DESIGN PATTERNS** **SCALING** **TESTING** **OPERATIONAL METRICS**
PRODUCT **RAPID PROTOTYPING** **USER VALIDATION** **DOCUMENTATION** **A/B TESTING**

SELECT EMPLOYMENT



Current
(4 yr, 2 mo)

Divergent

divergent3d.com

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 all 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 2020
(1 yr, 11 mo)

ProdPerfect

prodperfect.com

SENIOR PLATFORM MANAGER

Led the design and development of a suite of platform applications to enable self-managed end-to-end test suite creation and reporting.



Miro Health

mirohealth.com

Jan 2019
(7 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, 4 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



Software interface for generating and optimizing vertical-cell robotic assembly sequences

Aug 2024
(Granted)

US-20240288852-A1

A software package that mimics assembly floor hand-off patterns & real-time sequential decision making to accurately generate, visualize and replay assembly scenarios. In addition to the simulations, the software also utilizes a modified genetic algorithm to optimize for things like completion time and robot utilization. The package employs a unidirectional, flux-based data propagation pattern that ensures predictable state mutation to avoid race-conditions and allows for time-travel/replay functionality.

(more projects & details available at <https://manske.me>).