

Matthew Manske

Sr. Director of MES Software R&D

New York, NY

<http://manske.me>

matt@manske.me








+1 (415) 562 6753

[@mattmanske](#)

SKILLS

LANGUAGES	TYPESCRIPT	JAVASCRIPT (ES6)	HTML5/CSS3	RUBY		
FRAMEWORKS	REACT	ANGULAR	EXPRESS	REACT NATIVE	EMBER	RUBY ON RAILS
PRODUCT	RAPID PROTOTYPING	USER VALIDATION	DOCUMENTATION	A/B TESTING		
MANAGEMENT	ASSESSMENTS	TEAM DELIGATION	TECHNICAL SPECIFICATIONS			
SERVICES	AWS	AUTH0	FIREBASE	STRIPE	SLACK	GOOGLE MAPS
VISUAL	UI / UX DESIGN	DATA VISUALIZATION	WIREFRAMING			

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

	Divergent 3D \$428M CAPITAL RASIED divergent3d.com
Jun 2019	ANGULAR POSTGRES TYPESCRIPT THREEJS NESTJS WEBGL NX
	ProdPerfect \$20.5M CAPITAL RASIED prodperfect.com
Feb 2019	AWS REACT PRISMA REDUX/SAGA POSTGRES WEBPACK
	Mitsubishi G-Tape gtape.com
Feb 2019	REACT REDUX/SAGA FIREBASE WEBPACK
	Miro Health \$5.2M CAPITAL RASIED mirohealth.com
Nov 2018	REACT REDUX/SAGA SPEECH RECOGNITION WEBPACK HIPAA AWS SSO
	Hello Bar ACQUIRED BY CRAZY EGG hellobar.com
Jun 2016	EMBER RUBY ON RAILS A/B TESTING DATA VISUALIZATION IMAGE PROCESSING
	TwigTale \$1.2M CAPITAL RASIED twigtale.com
Aug 2015	REACT ALT/FLUX RUBY ON RAILS PDF GENERATION
	PrettyQuick ACQUIRED BY GROUPON groupon.com/beautynow
Nov 2014	EMBER RUBY ON RAILS GOOGLE MAPS API

SELECT EMPLOYMENT



Current
(2 yr, 4 mo)

Divergent 3D

divergent3d.com

SENIOR DIRECTOR OF MES SOFTWARE R&D

Lead a team of developers & scientists in various research & development applications spanning generative topology optimization, robotic assembly planning, & additive manufacturing materials exploration.

PLATFORM DEVELOPMENT MANAGER

Managed a series of internal applications to facilitate various research & development initiatives.



Dec 2020
(2 yr, 1 mo)

ProdPerfect

prodperfect.com

SENIOR PLATFORM ENGINEER

Spearheaded the design & development of a series of platform applications to facilitate self-managed E2E test suite development & reporting.



Dec 2018
(6 mo)

Miro Health

mirohealth.com

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.



Oct 2015
(5 yr, 4 mo)

Polymathic

ACQUIRED BY DEVMYND

manske.me/polymathic

PARTNER | CTO

Built a product team of a dozen developers & support staff. Lead product research & development, code architecture & project management decisions for dozens of startup & intrapreneurial ventures. Developed several large-scale javascript applications.



Nov 2012
(1 yr, 2 mo)

Junto

manske.me/junto

PARTNER | LEAD DEVELOPER

Designed an extensive learning program for ground-level startups that included software development, business development & angel investment procedures.

EDUCATION



May 2010

University of Wisconsin – Madison

wisc.edu

B.SC. FINE ARTS – WOODWORKING



May 2006

Johns Hopkins University

jhu.edu

AUDIO ENGINEERING JAZZ PERFORMANCE

SOFTWARE PATENTS



Pending
(Aug 2019)

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

ARON DERECICHEI MATTHEW MANSKE LUKAS CZINGER ANGELO SCANDALIATO

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. All code is written in Typescript and compiled to be run both in browser and Node environments.