# Nick McCrea

## Computer Engineer

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## EXPERIENCE

### Engineering Consultant @ Deepblocks

Nov 2020 - Mar 2021 // Miami, FL

➜ Delivered several critical capabilities to the Deepblocks platform.

### CTO/Lead Engineer @ Deepblocks

Sep 2017 - Sep 2019 // Miami, FL

➜ Programming. Software architecture. Technical strategy. Tooling. Deployments. Hiring. Engineering guidelines and procedures. Project management. Technical documentation.

### Lead Engineer @ Kinspire

Oct 2016 - Feb 2017 // Remote

➜ Built a job-matching platform to help immigrants to the US.

### Technical Editor @ Toptal

Aug 2014 - Jun 2016 // Remote

➜ Brainstorming topics. Providing reviews, feedback, and guidance of drafts. Copy editing and formatting. Coordinating custom illustrations. Finalizing and launching finished articles.

### Software Engineer @ PVPower

Feb 2011 - Jan 2013 // Chicago, IL

➜ Built and shipped a home solar power modeling and optimization tool.

### Software Development Intern @ Pathfinder Software

Oct 2010 - Jan 2011 // Chicago, IL

➜ Lean web development, small teams, sprints, test-driven development, and other agile development methods.

### Software Tester @ Telezygology

Sep - Oct 2010 // Chicago, IL

➜ Scientific testing of control software for remotely-controlled storage locks.

## EDUCATION

### University of Florida

2010 // Gainesville, FL

Bachelor of Science in Computer Engineering, Hardware Concentration

➜ Focus on digital logic and digital circuit design.
➜ Senior project investigated emergent behavior in complex systems.

## SKILLS

### Languages

JavaScript, TypeScript, Ruby, C++, Python, Bash, HTML5, CSS3, SQL

### Libraries, Frameworks, & Platforms

React, Redux, Ruby on Rails, Node, AWS, Linux, Docker, Git, VSCode, PostGIS, Mapbox

### Methodologies

Agile, TDD, Continuous Integration, Rapid Prototyping, Critical Path, Code Review

### Other

Digital Circuits, GIS, Robotics, Machine Learning, Research, Technical Writing, Teaching and Mentorship

## CERTIFICATIONS

### Machine Learning @ Coursera

Aug 2013

### Cryptography I @ Coursera

May 2013

### Control of Mobile Robots @ Coursera

Mar 2013

## PROJECTS & PUBLICATIONS

### Sobot Rimulator

Mobile robot simulation and control project demonstrating hybrid automata control theory. Open source. Python.

### An Introductory Robot Programming Tutorial

Popular robotics article supplementing Sobot Rimulator.

### An Introduction to Machine Learning

Popular ML article describing linear and logistic regression with gradient descent.

### Recursor

A fun tree fractal creator. Open source. React, TypeScript, Node.

## INTERESTS

Space Exploration, AI, Robotics, History, Natural Science, General Nerdery