

# Gilberto Guadiana

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## EDUCATION

**Northwestern University**, Evanston IL

Bachelor of Science in **Mechanical Engineering**

June 2022

Master of Science in **Computer Science**

June 2022

Cumulative GPA: **3.67/4.00**

**Honors:** Questbridge Match Scholar, The Gates Scholarship Scholar, Greer Scholar

**Coursework:** Advanced Mechatronics, Robotic Manipulation, Operating Systems, Artificial Intelligence Programming, Creative Machine Learning, Data Privacy, Generative Methods, Feedback Systems

## EXPERIENCE

### Blockchain Group

**Software Consultant**, Evanston, Illinois

May 2019 - February 2022

- Researched industries to identify solutions to pain points and attract client projects
- Designed and prototyped blockchain systems for clients including IBM and the University of Iceland
- Trained junior consultants and project managers to grow from 6 to 25 team members

**McCormick Summer Research Fellowship**, *Mentored by CS Prof. Kate Compton*

**Software Engineer**, Remote

June 2021 - September 2021

- Developed an app for artists to create and manage turn-by-turn NFT art collaborations with built-in ownership, royalty, and business logic with React and Web3 API calls
- Developed an app for groups to draw and mint their creations as NFTs together in live-time with WebRTC communication by using the Ethereum blockchain, Solidity, JS, Python
- Tested software for bugs with unit testing, user tests, and post-mortems in Agile environment

### GoGo Social Marketing Firm

**Technical Content Strategist**, Remote

March 2021 - July 2021

- Wrote content for a crypto hedge fund to grow their Facebook page from 1200 to over 3000 likes
- Led a team of technical writers to source content ideas and deliver engaging marketing copy

### Compass Mentorship Program

**Mentor**, Evanston, Illinois

June 2020 - May 2021

- Mentored 3 First Generation and Low Income (FGLI) first-year students through biweekly one-on-one meetings and ran workshops that helped 22 FGLI students better navigate Northwestern

**TU Dortmund University**, *Mentored by Tan Gurpinar, Enterprise Logistics Chair*

**Supply Chain Researcher**, Remote

June 2020 - September 2020

- Analyzed blockchain-based supply chain management systems through a systematic literature review
- Developed an enterprise tool for choosing a blockchain platform based on system needs and usage

## PROJECTS

**Brownian Motion Simulator, Senior Capstone, Project Manager**

January 2022 - June 2022

- Managed a team of six in building a shaking table to generate Brownian Motion for studying molecular bond breakage behavior with documentation and presentation of the design process
- Coded a tracking system using computer vision and statistical tests for validation and benchmarking

**Time for Frostbite to Develop, Applied CFD**

January 2022 - March 2022

- Modeled the time for a finger to get frostbite using Ansys Fluent with validation and verification

**Mobile Manipulation of KUKA youBot, Robotics**

October 2021 - December 2021

- Used odometry, reference trajectory generation, and feedback control to program the KUKA youBot to move a block to a desired location using MATLAB with simulations in CoppeliaSim

## ACTIVITIES

**Committee Member, Academic Committee for Slivka Residential College**

March 2019 - March 2022

**Member, Northwestern Track Club**

July 2018 - June 2022

## SKILLS

**Language:** Adept reading, writing, and speaking in Spanish.

**Computer:** Functional in MATLAB, JS, Python, C, C++, Lisp, NX CAD, Ansys, MPLAB, MS Office, Git, Solidity.