

PROFESSIONAL SUMMARY

My educational background in Computer Engineering from the University of Minnesota has equipped me with a solid foundation in technology and a deep understanding of computer systems, software development, and hardware design. Proficient in JavaScript, React, CSS, C#, C and C++, with hands-on experience in creating robust web and software applications. Adept at problem-solving and optimizing solutions for peak performance. Strong understanding of object-oriented programming and design principles, coupled with successful execution in all phases of software development, including design, coding, testing, debugging, implementation, and source management. Proven ability to collaborate effectively within diverse teams and lead projects to successful outcomes.

SKILLS

- Programming Languages: Java, JavaScript, Python, C#, C, C++, Verilog, SQL, Assembly
- Tools: Visual Studio, Matlab, AutoCAD, OrCAD-Pspice, Microsoft Office, MPLABX, PHPStorm, Altium, LaTeX
- Web Technologies: JavaScript, React, CSS, HTML, Sencha Ext JS
- Communication: Public speaking, technical writing, reporting
- Hardware: Arduino, Pic32, circuit analysis
- Other Skills: Bilingual (English/Spanish)

EXPERIENCE

Junior Software Developer
OATI Inc | Bloomington, MN

May 2022 - December 2022

- Developed and maintained full-stack solutions for OATI's applications, utilizing a range of tools; JavaScript, CSS, HTML, Sencha Ext JS, C#, and SQL.
- Collaborated with team members to create project timelines, ensuring tasks were completed within weekly deadlines.
- Monitored progress closely with daily meetings.
- Participated in code reviews, providing constructive feedback to uphold coding standards implementing best practices learned in school.
- Worked closely with the supervisor, software engineering team on site and remote to develop customized applications.
- Engaged in debugging activities and provided recommendations for improvements for new types of templates and Data Tables to meet client needs.

Electrical Support Technician
Minnetronix Medical Inc | St. Paul, MN

June 2021 - December 2021

- Assembled and repaired medical devices according to blueprints and AutoCAD drawings
- Installed, dismantled and reconstructed equipment required by customer or order.
- Collaborated with engineers to develop solutions for complex technical problems.

Software Development Intern
Brion Finlay Engineering LLC | Maple Grove, MN

October 2020 - April 2021

- Created web applications and components using React, HTML, and CSS to write & create user-friendly web pages for the given project.
- Created features to enhance the user experience while ensuring that the web design is optimized for smartphones (mobile responsive).
- Worked with GitLab to merge, pull, push, commit, create new issues, and branches to update changes to the master software..
- Built reusable code for future web page maintenance and Kept up to date on web developments and trends.

Quality Tester
Lind Electronics | Minnetonka, MN

July 2020 - October 2020

- Conducted PCB testing for opens, shorts, and other faults
- Maintained documentation related to test strategies, plans, cases, scripts, and results.

Math Tutor
Minneapolis Community & Technical College | Minneapolis, MN

June 2016 - May 2017

- Provided tutoring in math, physics, and computer science to students.,
- Collaborated with fellow tutors to share best practices and improve the tutoring program.

Uber Driver
Self-Employed

Jun 2018 - Current

- Provided transportation services to passengers in a safe and efficient, and accepted suggestions to appropriately fulfill needs.
- Planned and executed strategies to increase business and drive profit growth.

Electrician
Self-Employed

January 2023 - Current

- Read and interpreted blueprints and mechanical diagrams to visualize and plan for upcoming work
- Connected wiring in electrical circuits and networks and checked component compatibility following all safety processes .

EDUCATION

B.S. in Computer Engineering
University of Minnesota - Twin Cities, Minneapolis, MN

May 2022

Relevant Coursework: Digital Design (Verilog), Microcontrollers (MPLAB), Advanced Algorithms and Data Structures, Database Systems (SQL Server), Computer Architecture (C), Artificial Intelligence (Python), Signals and Communications Systems (OrCAD-Pspice)

A.S. in Mathematics
Minneapolis Community and Technical College, Minneapolis, MN

May 2017

Relevant Coursework: Object-Oriented Programming with C++, Discrete Mathematics

WEBSITE, PORTFOLIO AND PROFILES

- [linkedin.com/in/alex-lema](https://www.linkedin.com/in/alex-lema)
- github.com/alexisrael17
- <https://scitechmn.org/connecting-with-interns-past-and-present-at-brion-finlay-engineering/>