**Bjørn Mathisen**

Software Engineer & Data Analyst

**Activities and Projects**

**Education**

**EPROM Programmer, Project Medusa**

* Bridged the gap between the software and hardware teams to create a fully functional 8-bit computer using integrated circuits.
* Exercised exhaustive debugging, teamwork, and organizational skills while helping both teams communicate.
* Programmed EPROMs with OP code.
* Achieved best performance in school history.

**Bachelor of Science in Computer Science**

Principia College, 2014-2018

**Fire Science & EMT License**

Elgin Community College, 2012-2014

**Work Experience**

**Modula-2 Compiler**

* Developed compiler in C# to compile Modula-2 code into MASM32 code.

**Data Analyst – Contract** Jan 2019 - Jul 2019 **Zerma**

* Wrote a Python web crawler to generate a database of 12 thousand contacts.
* Created a customer contact relational database in SQL to manage this data set.
* Used Microsoft Access to allow non-technical participants to pull from an SQL database for job function and improved workflow.

C:\Users\Tahmid Hasan\Desktop\messsage-icon.pngC:\Users\Tahmid Hasan\Desktop\call-icon.png

**C++ CUDA Terrain Generation Tool**

**Automated Testing in Python & Java**

**Public Speaker, Adobe Suite User**

**Photographer, Astronomer, Hiker**

**Budgeting Application**

* Wrote a C# & .Net application to handle the budgets of multiple users using a SQL database.
* MVC framework allowed multiple levels of users, admin, accountant, etc.
* Used automated testing to handle quality control.

**Python Server/Client Chat App**

* Developed a UTC server to handle connections from a GUI client sending multiple user messages back and forth.
* Programmed chat history and private messaging for users.
* Created a database to maintain a list of users and unsent messages.

**Primary Language:** Python, C#, .Net

**Familiar with:** C++, C, SQL, Java, Json, Assembly, XML, Junit, NUnit, Unit Testing,

**Some Familiarity:** LISP, Ruby on Rails, HTML/CSS, MongoDB, Kotlin, PHP, Latex

**Observatory Manager**  2015-2018 **Principia College**

* Organized and trained students in the technical operation of a research grade telescope.
* Wrote technical documents facilitating the operation of both novice and advances levels of operation.
* Conducted research with Dr.Laurance Doyle from NASA on the possibilities of double binary stars using research grade imaging software and telescope.

**Programming Languages/Tools**

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**Contact Me**

**General Construction** 2012-2017 **Mchenry County**

* Performed general building maintenance and construction within a crew and alone.
* Developed a good work ethic and the ability to work with many different types of people.

**Field Engineer - Contract** Jan 2019 - Jul 2019 **Zerma**

* Traveled to automobile factories and installed large granulators and shredders.
* Wired and debugged complex electrical panels according to wiring schematics.
* Dealt with plant managers and other crew leaders to facilitate the installation and moving of machinery.