

Nicholas Baron

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Education

California State Polytechnic University, Pomona

Will Be Completed December 2022

Master's of Science in Computer Science

California State Polytechnic University, Pomona

Completed December 2020

Bachelor of Science in Computer Science (GPA: 3.8)

Relevant Coursework:

Data Structures and Advanced Programming, Design and Analysis of Algorithms, Compilers and Interpreters
Parallel Processing, Computer Organization and Assembly Programming, Multivariable Calculus

Work Experience

Compiler Intern, Wind River Systems, CA

June—Current 2021

- Shipped an updated version of Rust for VxWorks
- Ported an open-source implementation of UbSan for the Diab7 compiler

Software Engineering Intern, Murcal, Inc., Palmdale, CA

May—August 2019

- Developed and documented a framework that will be used on future embedded systems
- Created and designed multi-threaded features from feedback given by team members
- Worked in a semi-independent development role to iterate on the project

Extracurricular Projects

little-lang

Fall 2019

- Used third-party tools to assist in building and generating code for the project
- Researched compiler concepts related to the project, improving the code from said research
- Improved project specification after project had begun, adding comprehensibility
- Documented accepted language with example code and used examples for testing

Prime_Finder_2

Spring 2019

- Developed models to better understand parallel processing concepts
- Implemented a safe multithreading model for scalability
- Optimized multithreaded code to improve perceived performance

COG-Engine

Spring 2019

- Published API documentation and examples for users of the project
- Extended already existing free software to allow custom functionality
- Used tools which support multiple platforms for ease of distribution

Lidar Mapping

Fall 2018

GitHub: [thomaselemy/3D-MAPPING](https://github.com/thomaselemy/3D-MAPPING)

- Collaborated on a multidisciplinary team through participation in weekly meetings
- Created code that was understandable by other team members for long-term support
- Assisted in troubleshooting technical issues outside of areas of expertise

Technical Skills

- | | | |
|-----------|--------------------------|-----------------------------------|
| • C++ | • Linux (Debian, Ubuntu) | • git / GitHub, Bitbucket |
| • Rust | • Shell Scripting (Bash) | • Microsoft Visual Studio |
| • Haskell | • make | • L ^A T _E X |
| • Java | • CMake | • Assembly (MIPS) |