Address 1197 Pine Ridge Court Milford, MI 48380

PAUL BONNEN

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GitHub hal7df http://hal7df.github.io

OBJECTIVE

Seeking a summer internship to demonstrate and expand my knowledge in software engineering and computer architecture.

EDUCATION U:

University of Michigan

Ann Arbor, MI

Undergraduate Engineering

Graduation Apr. 2019

Computer Science

GPA: 3.972/4.0 (as of Fall 2016)

- EECS 203 (Discrete Math, Winter 2016)
- EECS 280 (Programming and Introductory Data Structures, Fall 2016)
- MATH 214 (Applied Linear Algebra, Fall 2016)
- EECS 281 (Data Structures and Algorithms, present)
- EECS 370 (Introduction to Computer Architecture, present)

EXPERIENCE AGC Automotive Americas R & D, Inc.

Ypsilanti, MI

Intern, Software Development

Aug. 2015 – present

- Created and maintained replacement server virtual machine (SLES 12) as an emergency recovery procedure of business-critical Linux web server
- Maintained PostgreSQL database for North American testing operations
- Updated JSP-based web pages to improve user experience and workflow
- Utilized Java EE servlets and AJAX to improve content load speed and smoothness of user interface
- Implemented a text-based search parser on top of PostgreSQL to allow more direct access to database contents

FIRST Robotics Competition Team 67

Milford, MI

Lead Student Programmer; student mentor

Jan. 2013 – Apr. 2015

- "Dean's list" nominee
- Created culture of learning within programming group to encourage mutual teaching and learning
- Organized and led programming group meetings over 6-week period to teach 10 programmers to write and design robot code
- Created comprehensive series of interactive tutorials for C++, robotics programming, and Git online: http://hal7df.github.io/pauls-tutorials
- Instantiated consistent robotics codebase development scheme using GitHub

Independent software development

June 2013 – present

Independent programmer

- \bullet Designed and implemented 4 unpublished, beta Android apps in Qt/QML, with some under-the-hood features written in Java
- Developing a shell language and corresponding C++ library to provide applications with an API for creating interactive shell interfaces

Science Olympiad

White Lake, MI

General Secretary

Sept. 2014 – May 2015

- ullet Organized team resources on team web page to allow team members to prepare more effectively
- Created system to allow for more effective team organization and membership

COMPUTER SKILLS

Platforms: Linux (predominantly Ubuntu and openSUSE/SLES), Windows 2000 – 10

Applications: VirtualBox, Qt Creator, Eclipse, PuTTY/SSH, PostgreSQL, javadoc, jsdoc, Doxygen

Languages: Skilled in C++, HTML, JavaScript, CSS, QML, bash, Java; proficient in MATLAB, C, LATEX

LANGUAGES Proficient in French

ACTIVITIES FIRST Alumni and Mentors Network at Michigan

Sept. 2015 - present

 $Website\ maintainer;\ general\ member$

- Volunteered at Ann Arbor's FIRST Robotics Competition kickoff event for two years (2016, 2017)
- Lead website maintainer

Michigan Hackers

Jan. 2016 – present

- Working on web-based PID control simulator using JavaScript canvasm
- Working on scientific data analyzer and plotter webapp