

Alexander Phillips

✉ alexander@keemail.me | ☎ (765) 543 9657 | 📍 San Jose, California | 🌐 alexphillips.xyz

Education

University of Leicester

MS IN COMPUTER SCIENCE

Leicester, England, UK

Aug 2017 – Present

Purdue University

BS IN COMPUTER ENGINEERING, MINOR IN PHYSICS

West Lafayette, Indiana, USA

Aug 2010 – Dec 2015

Experience

Jabil Circuit Inc.

San Jose, California

TEST ENGINEER II

Apr 2016 – Present

- Designed and built the infrastructure for automated testing of the customer's Enterprise Emulation Platform in Python, Bash and C shell on the GNU + Linux command line.
- Wrote tests for the customer's Enterprise Emulation Platform to ensure quality and maintained the tests with updates.
- Developed and launched a data parser in Python for collection and upload of test results into Jabil's MES system.
- Suggested, designed and implemented a neural network to identify human errors on the manufacturing floor.
- Developed a visual test progress monitor in Python which is now on display on the manufacturing floor.
- Determined design flaws for individual customer FRUs and worked with the customers to ensure that the issues are closed.
- Developed scripts to analyze performance and telemetric data of customer products.

Purdue University Physics Department

West Lafayette, Indiana

UNDERGRADUATE RESEARCH ASSISTANT

Aug 2013 – Aug 2014

- Developed and implemented methods using data received from XENON100 detector to determine possible Dark Matter interaction. Also set up and created hardware to work with neutron generator.

Skills

Programming Languages:

Python, C, Go, Bash, Matlab, Assembly (Motorola HCS12), Java

Hardware Description Languages:

System Verilog, ABEL

Web Development:

HTML5, CSS, Javascript

Software:

Catia, AutoCAD, ModelSim, QuestaSim, Eagle, GNU + Linux Operating System

Certifications:

Qualified Sealed Radioactive Source Handler, LEAN Bronze

Projects

32-bit MIPS Microprocessor

DESIGNED FROM SCRATCH AS A SINGLE CYCLE, PIPELINE AND EVENTUALLY MULTICORE STRUCTURE.

System Verilog

<https://github.com/Tatsuonline/ECE-437>

Micro Programming Language Compiler

UTILIZED ANTLR TO CREATE A COMPILER FOR THE MICRO PROGRAMMING LANGUAGE.

Java

<https://github.com/Tatsuonline/Micro-Compiler>

Scintillator-Photomultiplier Output Pulse Discriminator

USES ALGORITHMS DESIGNED IN PYTHON AND IMPLEMENTED IN SYSTEM VERILOG TO PERFORM PULSE SHAPE DISCRIMINATION ON NEUTRON AND GAMMA RECOILS IN SCINTILLATORS.

Python, System Verilog

<https://github.com/Tatsuonline/Dark-Matter-Research>

Awards

Jun 2017

Jabil Star Award Recipient, Recognized for contributions to the company, directly leading to revenue increases.

Jabil Circuit Inc.

May 2018

Jabil Respect, Recognize, Reward Recipient, Contributions to the company were recognized and honoured on the Jabil website.

Jabil Circuit Inc.

Nov 2018

1st First Place Winner: Continental Jabil Best Practices Competition, Submitted project won first place in the competition to improve efficiency.

Jabil Circuit Inc.