

# NATASHA PETRUS

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## EDUCATION

September 2015 - June 2017

**Seattle University - Seattle, WA**

**Bachelor of Science in Electrical Engineering**

**Summa Cum Laude**

**GPA: 3.99 / 4.00**

- Messina Merit Scholarship
- IEEE-HKN Mu Iota Chapter  
Web Correspondent
- Alpha Sigma Nu Jesuit Honor Society  
Top 4% of Senior Class
- Tau Beta Pi Engineering Honor Society
- Tau Sigma National Honor Society
- President's and Dean's Lists  
September 2015 - June 2017

September 2013 - June 2015

**North Seattle College - Seattle, WA**

**Associate of Science Degree**

## COMPETENCIES

LANG	English	●	●	●	●	●
	Indonesian	●	●	●	●	●
	French	●	●	●	●	●
	Chinese	●	●	●	●	●

C#, HTML + CSS, JavaScript (jQuery, Typescript, ReactJS, React Native, Knockout, AngularJS), SQL, LaTeX, MATLAB, C, C++, Python, Java + Scala, PHP, VHDL, MIPS Assembly Language

- |       |  |
|-------|--|
| SKILL | • Full-stack web & mobile apps design and development  |
|       | • PCB design and soldering   |
|       | • Custom IC layout design  |
|       | • FPGA programming and testing   |
|       | • Strong organizational, analytical, interpersonal, presentation, & technical writing skills |
| TECH  | • Experienced in graphic design  |

Visual Studio, Visual Studio Code, IntelliJ IDEA, Git/GitHub/GitLab, SQL/RDBMS (MySQL, PostgreSQL), NoSQL (MongoDB, Redis), Jenkins, RabbitMQ, Docker, AWS (OpsWorks, Elasticsearch, ElastiCache) CircleCI, Expo, MS Office, NI Multisim, NI Ultiboard, AutoCAD, Solidworks

## RELEVANT EXPERIENCE

September 2019 - Present

**Software Engineer for Kit.com**

Currently responsible for infrastructure migration, maintaining existing functionality, as well as implementing new features following Geniuslink's acquisition of Kit.com.

October 2017 - Present

**Software Engineer at Geniuslink**

- Has increased the number of automated integration tests against the company's web applications by more than 3000% thus far
- Allowed all integration tests to be run against any environment easily through Jenkins and greatly assisted in making Canary testing possible
- Designed and developed Geniuslink's REST API v3
- Designed and programmed the preliminary version of the company's mobile application using React Native
- Frontend/backend work using C#, Typescript/JS, jQuery, and Knockout

September - October 2017

**Game Tester at HCL Technologies/Microsoft**

Worked within HCL Technologies' CERT lab, partnering with Microsoft, to certify pre-released Xbox games were up to specified software and platform standards.

September 2016 - June 2017 [ [patent pending](#) ]

**Interdisciplinary Project: T-Mobile Compact Robotic System**

Refined handset validation testing for T-Mobile via robotic implementation; reduced manufacturing cost by at least 50%, reduced physical size by at least 60%, and improved power efficiency.

- Designed and manufactured two working prototypes within a year using SolidWorks (3D modeling)
- Programmed in C++, used OpenCV and LabView for image processing

March - June 2017

**VLSI Project: ALU Integrated Circuit Design**

Designed the 3D layout of an ALU chip from transistor level using Electric VLSI.

January - March 2017

**Independent Study: 13.56MHz RFID on Ettus N210 SDR**

Implemented the ISO 18000 13.56 MHz RFID standard on software defined radios with LFRX and LFTX daughterboards.

July - August 2016

**Electrical Engineering Intern at PT Aneka Elektrindo Panel**

Designed and built circuit panels based on client's specifications using AutoCAD.

October 2015 - June 2016

**Internship: IT Manager at Global Visionaries**

- Set up an online auction and created a donation page to support the educational needs of underprivileged youth
- Provided network security strategies and conducted staff training

January - March 2016

**MATLAB Teaching Assistant at Seattle University**

- Provided in-class help and out-of-class tutoring sessions
- Graded weekly projects and assignments