





# NATASHA PETRUS

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## EDUCATION

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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**

## SKILLS

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Software and Platforms:

Visual Studio, GitHub/GitLab, Jenkins,  
Redis, RabbitMQ, Expo, MS Office, NI  
Multisim, NI Ultiboard, NI LabView, Eclipse,  
AutoCAD, Solidworks

Languages, Libraries, and Frameworks:

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

Additional Skills:

- Mobile app design and development
- Full-stack web development
- REST API development
- PCB design, testing, and soldering
- Custom IC layout design and testing
- FPGA programming and testing
- @RISK for financial analysis
- Technical writing skills
- Strong organizational, analytical,  
interpersonal, and presentation skills
- Fast learner and a problem solver
- Experienced in graphic design

## RELEVANT EXPERIENCE

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October 2017 - Present

**Software Engineer at Geniuslink**

- Has increased the number of integration tests against the company's whole web application and service by more than 3000% thus far
- Constantly automating tests using Jenkins/Mono, Selenium (C#), NUnit, and ServiceStack
- Allowed all integration tests to be run against any environment easily through Jenkins and greatly assisted in making Canary testing possible
- Mocked third-party APIs for testing against the company's service
- 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 to certify pre-released games and the DLCs were up to specified software and platform standards.

September 2016 - June 2017

**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