Andrew Gnias

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EDUCATION

B.S. in Mechanical Engineering, June 2016
Drexel University, Philadelphia, PA
GPA: 3.86

COURSEWORK

Software Courses: Computer Programming (C++), Advanced Programming Techniques, Data Structures and Algorithms, Fundamentals of Reinforcement Learning, Industrial Internet of Things
Engineering Courses: Control Systems, Finite Element Methods, Computer Aided Design, Fluid Dynamics, Materials, Thermodynamics

SKILLS

Programming Languages: Python, Perl, Bash, C++, C, MATLAB, PowerShell
Operating Systems: Linux (RHEL, Ubuntu), Windows
Software Tools: Git, RPM, MSBuild, NuGet, Nexus Repository Manager, TestRail, Selenium, Cucumber
Engineering Tools: ANSYS, Creo, MakerBot 3D printing, Minitab, LabVIEW, LaTeX

EXPERIENCE

The Stratagem Group | King of Prussia, PA
Software Engineer Senior August 2019 - Present

- Export TestRail project data into an XML file and import into a remote TestRail instance utilizing REST API calls
- Research tools and develop prototypes for automated testing
- Present custom software tools at a conference to various product stakeholders

Lockheed Martin, Space Systems Company | King of Prussia, PA
Software Engineer April 2018 - August 2019

- Automate processes to build NuGet and RPM packages
- Write scripts to install software, configure servers, and transfer files
- Communicate with test users to help identify and resolve product defects
- Write and improve code for a Java project to simulate test scenario events
- Maintain software archives in Nexus Repository Manager via RESTful API

Associate Software Engineer September 2016 - April 2018

- Install, configure, and test software as part of an agile development team
- Support weekly product deployments to a factory test level environment
- Develop and improve End-to-end tests using Selenium and C#
- Configure SSL/TLS certs for web services and applications

Optical Diagnostics Lab, Drexel University | Philadelphia, PA
Hess Undergraduate Research Scholar June 2015 - March 2016

- Monitored vibration on lab equipment with an accelerometer utilizing I2C communication
- Designed circuit board to read data from accelerometer and temperature monitor
- Wrote Python script to process and upload data to Google Drive using Google APIs
- Developed data acquisition and control programs for oscilloscopes and temperature controlled lasers using LabVIEW

Drexel University and Children's Hospital of Philadelphia | Philadelphia, PA
Senior Design Team Member September 2015 - June 2016

- Optimized a laryngoscope blade to improve the success rate of pediatric intubation
- Developed and read input from sensors to detect pressure points on device
- Analyzed MRI scans of pediatric airway anatomy to determine optimal device curvature

University City Science Center | Philadelphia, PA
Technical Investment Analyst September 2014 - March 2015

- Collaborated with local institutions to transition biomedical research into marketable products
- Prepared and submitted grant applications through the National Institute of Health (NIH) and Small Business Innovation Research (SBIR) program

Essential Medical | Malvern, PA
Product Development Co-op September 2013 - March 2014

- Built and tested over 500 vascular closure devices for sealing capability and functionality
- Wrote critical documents, including Assembly Instructions and a Verification Test Plan
- Conducted product experiments in an in vitro model and assisted in an in vivo study

LEADERSHIP / ACTIVITIES

- Phi Kappa Psi Fraternity | Philadelphia, PA | President | October 2014 – May 2015
- Study Abroad | Bochum, DE | Engineering Spring in Bochum | April 2014 – June 2014