4 E Athens Ave, APT 201, Ardmore PA, 19003 AGnias47@gmail.com | C: 215-666-3342

EDUCATION B.S. in Mechanical Engineering, June 2016

Drexel University, Philadelphia, PA

GPA: 3.86

COURSE-WORK **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, JavaScript, MATLAB

Operating Systems: Linux (RHEL, Ubuntu), Windows

Software Tools: Git, RPM, MSBuild, NuGet, Chocolatey, Nexus Repository Manager,

Jenkins, TestRail, Docker, Selenium, Cucumber, Vim

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

PERSONAL PROJECTS

- SpotifyAPI Playlist Generator Generates a Spotify playlist for a Spotify user from a text-based list of songs
 - https://github.com/AGnias47/SpotifyAPI
- Secret Santa Selection Manager Makes Secret Santa selections for a group, considering exceptions, and emails the assignments to participants
 - https://github.com/AGnias47/Secret_Santa

LEADERSHIP Phi Kappa Psi Fraternity | Philadelphia, PA & ACTIVITIES

- Chapter President October 2014 May 2015
- Scholarship Evaluator March 2017 Present
- Regional Officer Training Facilitator February 2020

Engineering Spring in Bochum, Germany | Bochum, DE

- Took classes with professors at Ruhr-Universität Bochum
- Assisted PhD candidates in a lab performing research on Phase Change Slurries (PCS)