Kenneth Alexopoulos

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EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY

BS/MS in Computer Engineering
Expected May 2019 | Rochester, NY
Immersion in Sci, Tech & Society
Kate Gleason College of Engineering
Cum. GPA: 3.56 / 4.0
Major GPA: 3.93 / 4.0

VERGENNES UNION

Grad. June 2014| Vergennes, Vermont

LINKS

Github: Kennya-42
Linkedin: Kenneth Alexopoulos

COURSEWORK

GRADUATE

Computer Vision
Data and Network Communications
Digital IC Design
Machine Learning

UNDERGRADUATE

Applied Programing
Digital Signal Processing
Electronics
Interface and Digital Electronics
Software Engineering
Assembly Language with Lab

SKILLS

PROGRAMMING

Languages:
Python • C • C++ • C# • Java • Go
Matlab • Verilog • HTML• Assembly
Batch • Bash • Make • Perl • XAML
LaTeX• VHDL

SOFTWARE:

Git • Jira • Confluence • Excel • Linux
CANalyzer • Understand • Azure • Keras

HARDWARE:

Oscilloscope • Digital Multimeter
Waveform Generator • CANcaseXL •
Breadboard Prototyping

EXPERIENCE

THE RAYMOND CORP | Software Engineering Co-op

January 2017 - August 2017 | Greene, NY

- Reverse engineered a proprietary CAN-bus database file system, and created a script to replace the proprietary GUI with an Excel parsing script in Perl.
- Created multiple CAN-bus databases from documentation and/or source code.
- Added build automation in the form of add in C code beautifiers, and a windows build utility in C# for legacy software.
- In Golang implemented a parsing application to read raw CAN frames off a bus and parse them into human readable database entries and upload them to an Azure Blob Store using 3G.
- Implemented the application on an embedded Linux microcontroller with CAN frame filtering to reduce data sent to the cloud.

ADDISON NW SUPERVISORY UNION | Technology Assistant

Summer 2014, 2015, 2016 | Vergennes, VT

- Computer imaging
- Excel database maintenance
- Batch automation

CLASS/PERSONAL PROJECTS

KAGGLE LANDMARK RECOGNITION

- Entered in the Google Landmark Recognition Challenge.
- Used transfer learning for feature extraction.
- Pooled features together using VLAD.
- Trained a SVM for Landmark classification.

CAPSTONE: AUTONOMOUS GOLF CART

- Developed marketing and engineering requirements associated with project.
- Expanded on iterative student project to enhance an autonomous golf cart with campus wide localization and path planning.

NXP CUP: INTELLIGENT LINE SCAN CAR

- Developed small autonomous car with line scan vision for path detection.
- Competed in class wide competition for fastest time.

HEALTH NET

- Worked in a group of five to construct a prototype health care website.
- Used Django's framework, project used Python, HTML, CSS, and JavaScript.

APPLIED PROGRAMING

- Developed multiple C projects that implemented numerical algorithms to solve common engineering problems.
- Focused on efficient portable code and bypassing limitations of numerical precision for complex calculations.

INTERESTS

Skiing • Hiking • Rock Climbing • Long boarding