JOSEPH R. KOCIK

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SKILLS

C, Java, MATLAB, and MIPS Assembly VHDL and Computer Architecture Vivado (Xilinx Zynq-7000 devices) GNU/Linux and Windows

WORK EXPERIENCE

WORK | COMPUTER VISION ENGINEERING INTERN COLLINS AEROSPACE

EXPERIENCE JUNE 2019 – PRESENT

- Expanded application (TCL/C) that provided debugging capabilities for the Coalescence mixed reality system.
- > Investigated machine learning application running on Nvidia Jetson AGX Xavier.

UNDERGRADUATE RESEARCHER NSF SHREC

FEBRUARY 2017 - PRESENT

- Studied general FPGA design targeting Zyng 7000 series SoCs and the CSP
- Conducted Time-Triggered Ethernet research using simulation software VisualSim Architect and a TTTech hardware testbed.
- Modified image processing library (C) to reduce memory usage (ARM Cortex-A9).

USRA INTERN NASA JOHNSON SPACE CENTER

JUNE 2018 - AUGUST 2018

- Wrote program to procedurally define Time-Triggered Ethernet networks.
- Supported Time-Triggered Ethernet through software development and planning.

STUDENT RESEARCH ASSISTANT UNIVERSITY OF MAINE: CFWRU

SUMMERS 2013 - 2016

- Helped construct mammal tracking telemetry system. Instructed project members in system software use.
- Assisted grad students in sampling, laboratory, and data collection tasks.

INTERN PROJECT SHARE (SALMON HABITAT AND RIVER ENHANCEMENT)

SUMMERS 2011 - 2012

- Netted, measured, weighed, and identified fish for electrofishing project.
- Conducted Habitat Suitability Indices of salmon and trout streams.
- Restored habitat by relocating logs and boulders. Constructed improved culverts.

EDUCATION

UNIVERSITY OF PITTSBURGH – CURRENT

MASTER OF SCIENCE - ELECTRICAL AND COMPUTER ENGINEERING

University of Pittsburgh – CLASS OF 2019

BACHELOR OF SCIENCE - COMPUTER ENGINEERING

GPA – 3.898, Dean's List 2015-2019

HAMPDEN ACADEMY – CLASS OF 2015

HIGH SCHOOL DIPLOMA

GPA – 96/100 (unweighted), High Honors 2011-2015