JOSEPH R. KOCIK

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SKILLS

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

WORK EXPERIENCE

GRADUATE RESEARCHER NSF SHREC

EXPERIENCE AUGUST 2019 – PRESENT

- Researching space computing on FPGAs
- Studying FPGA designs targeting Zynq 7000 series SoCs and the CHREC Space Processor.

UNDERGRADUATE RESEARCHER NSF SHREC

FEBRUARY 2017 - JUNE 2019

- 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).

COMPUTER VISION ENGINEERING INTERN COLLINS AEROSPACE

JUNE 2019 - AUGUST 2019

- Expanded application (TCL/C) that provided debugging capabilities for the Coalescence mixed reality system.
- Investigated Time of Flight camera for integration with mixed reality system.

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 (EXPECTED ~2021)

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