

JACOB HENNINGSGAARD

4041 Primrose Pl. #25, Beavercreek, OH 45431 • (717) 717-7149 • jake.henningsgaard@gmail.com • www.jakehenningsgaard.com

EDUCATION

B.S. Computer Engineering & Computer Science (Dual Major)

Wright State University

GPA: 3.24

Expected: May 2016

EXPERIENCE

2014-Present

Roy Jorgensen Associates, Inc.

Dayton, OH

Engineering Intern

- Develop software tools to transform raw quality assurance and quality control data into geospatial data allowing for a more visually efficient report
- Advise the ongoing development of proprietary mobile and desktop software designed to manage work orders for over 20 contracts
- Streamline data entry for asset inspection information via the upgrade of legacy-based inspection systems for improved consolidation and standardization for increased digital portability and expanded data manipulation capabilities

2010-2014

United States Air Force

WPAFB, OH

Contracting Specialist (Active Duty)

- Member of the civil engineering commodity council tasked with supporting 71 Air Force bases (CONUS) by providing strategic life cycle acquisition analysis on \$2 billion in civil engineering spending
- Recognized opportunity for reduction in yearly AF base fire station spending and improvement in re-supply efficiency, performed spend analysis on AF fire PPE cost and cross-referenced with current market data to project a savings of \$20 million over 5 years
- Deployed to Bagram Air Base, Afghanistan, and assigned to Joint Theater Support Contracting Command
 - Aided Operation Enduring Freedom US troop withdrawal, centralizing 350 contract support services and ultimately reducing contracting footprint by \$14 million
 - Spearheaded closure of three forward operating bases and terminated 15 contracts totaling \$1.2 million, which eased the de-mobilization of 250 ISAF soldiers
- Hand selected for 1st team to assist the Army Rock Island Contracting Center
 - Supported 110,000 Operation Iraqi Freedom and Operation Enduring Freedom joint forces, personally awarding 111 contract actions totaling over \$600,000
 - Aided in the procurement of over \$80 million worth of purchases in mission critical commodities and provided reach back support for troops in deployed locations, establishing efficient channels for acquiring needed supplies

2004-2006

Apple

Bethesda, MD

Family Room Specialist

- Provided hands-on technical support for current and past Apple mobile devices
 - Resolved both software and hardware problems encountered by customers on mobile devices and computers
 - Orchestrated data transfer program, migrating customer data to their new computer, averaging less than a 24-hour turnaround time
-

PROJECTS

Intel Y86 Instruction Set Emulator

- Developed an emulator (written in C) that accepts a plain ASCII text file containing a set of Intel Y86 program instructions (represented as hex values) as input and properly implements logic to fetch, decode, execute, update memory, update registers, and update program counter

Reverse Engineer Machine Code

- Successfully reverse-engineered a standards-compliant program written in binary to identify multiple vulnerabilities present in the login prompt. Exploiting these vulnerabilities I was able to determine the memory location of each password and decipher the program logic used to obfuscate the data
-

SKILLS & RELEVANT COURSE WORK

- Java
- C
- Assembly Language
- XML
- GPS/GIS Data Manipulation
- Intro to Software Engineering
- Data Structures and Algorithms
- Microprocessor-Based Embedded System