Mark W. Davis

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EDUCATION Master of Science in Computer Science - GPA 4.0 (Predictive Analytics) (May 2019)

DePaul University, Chicago, IL

Double Major - BS Applied Mathematics, BS Electrical Engineering May 2017

Georgia Southern University, Statesboro, GA

COMPUTER

Python, R, Tableau, C/C++, Java, Hadoop, MATLAB, JavaScript, Assembly,

SKILLS AWS, Azure, Linux, Oracle SQL, Excel, VBA, CUDA, VHDL

UNDERGRADUATE RESEARCH

Leukemia Prediction: Comparison of Machine Learning Prediction Algorithms

Poster Presentation – 2017 – Georgia Southern University Research Symposium

- Accurately predicted cancer diagnosis using supervised machine learning algorithms
- · Trained, validated, and compared accuracy of four machine learning models for public cancer data

Insurance Claim Prediction Using Kaggle Dataset

Final Project – 2018 – College of Computing DePaul University

- Implemented multiple machine learning models for improved classification accuracy
- Prepared data for analysis, implemented testing and validation techniques

Machine Vision and Navigation using Stereoscopic Imaging

Poster Presentation – 2017 – College of Engineering Research Symposium GSU

- Implemented CUDA GPU hardware with long range HD stereoscopic camera to construct 3D pointcloud models for mobile robotic navigation.
- Integrated autonomous mapping software and hardware using Robotics Operating System in Linux

Semi-Autonomous IOT Rover for Warehouse Surveillance

Electrical Engineering Capstone – 2017 – Georgia Southern University

- Designed and fabricated an object-avoiding rover and remote-control panel including live video and website control override for industry application using 802.11/UART standards
- Implemented custom PCBs, laser-cut enclosures, and 3D-printed parts

PROFESSIONAL EXPERIENCE

Vivint Inc. Home AutomationNYC-Boston-Miami-Austin

Home Automation Technician
January 2011 – August 2016

- Installed 1000+ custom home automation and IOT surveillance security systems
- Ranked in top 100 (out of 2500+) technicians during 2014 for total accounts installed

U.S. Department of Defense Moody Air Force Base, Valdosta, Georgia

Intern to Energy Manager January 2009 - July 2010

- Developed facility energy use reports for 200+ Air Force facilities with calculated cost/SF
- Initiated and programmed \$500,000+ of energy reduction projects with Resource Efficiency Manager

Valdosta State University
 Valdosta, Georgia
 Tutor of Mathematics
 August 2007 - May 2009
 Completed Internationally Certified (3-week) tutor training program
 Tutored +100 students each semester: Math, Physics, Computer Science

LEADERSHIP ACTIVITIES: ROLE:

NASA Sponsored Solar Eclipse High-Altitude Balloon 2017 – Embedded Systems Design and Launch Team

FCC Amateur Radio 2017 – Extra Class License

Electrical Engineering Capstone, GSU

Robotics Research Grant, GSU

2017 – 1st Place Presentation, 2nd Place Website

2017 – Awarded \$2000 for Machine Vision Research

Robotics Competition, IEEE

2015 – 2017 – Leader Navigation, Computer Vision

Institute of Electricians and Electrical Engineers, GSU 2012 – 2017, 2017 – Events Coordinator

Math Competition Pi Mu Epsilon, VSU

Mathematical Association of America, VSU

2015 – 2nd Place Award
2014 – 2015, 2010 – President