

Mark W. Davis

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OBJECTIVE To obtain a Data Science role that can utilize skills from Machine Learning, Model Building & Evaluation, Data Mining, Software Engineering, and Applied Mathematics, plus 8 years of experience working in technical teams to support the needs of the organization.

EDUCATION **Master of Science in Computer Science** (Focus in Predictive Analytics) (May 2019)
DePaul University, Chicago, IL

Double Major - BS Applied Mathematics, BS Electrical Engineering May 2017
Georgia Southern University, Statesboro, GA

COMPUTER SKILLS Python, R, C/C++, Java, Hadoop, MATLAB, JavaScript, Assembly, 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

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 point-cloud 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 Automation** NYC-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:

NASA Sponsored Solar Eclipse High-Altitude Balloon
FCC Amateur Radio
Electrical Engineering Capstone, GSU
Robotics Research Grant, GSU
Robotics Competition, IEEE
Institute of Electricians and Electrical Engineers, GSU
Math Competition Pi Mu Epsilon, VSU
Mathematical Association of America, VSU

ROLE:

2017 – Embedded Systems Design and Launch Team
2017 – Extra Class License
2017 – 1st Place Presentation, 2nd Place Website
2017 – Awarded \$2000 for Machine Vision Research
2015 – 2017 – Leader Navigation, Computer Vision
2012 – 2017, 2017 – Events Coordinator
2015 – 2nd Place Award
2014 – 2015, 2010 – President

COMMUNITY INVOLVEMENT Kaggle Safe Driver Prediction, DePaul Machine Learning Hackathon, ChiPy, PyData