

Drew E. Brown

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OBJECTIVE

To expand my knowledge of Cybersecurity through the completion of an MS degree in Cybersecurity
To secure a civilian position as a Cybersecurity expert, supporting US infrastructure rehabilitation
To apply innate curiosity for questioning to troubleshoot non-optimized systems for revitalization
To build a community-serving organization to promote healing
Long term goal for Offensive Security's Penetration Testing with Kali Linux Certification

EDUCATION

Old Dominion University, Norfolk, VA

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|---------------|--|-------------------------------|---------------|
| M.S. | <i>Cybersecurity</i> | | December 2023 |
| | ▪ CS564 | Networked Systems Security | A |
| | ▪ CYSE600 | Cybersecurity Principles | A |
| | ▪ CYSE603 | Advanced Cyber Law and Policy | A |
| B.S. | <i>Mechanical Engineering Technology - Awarded</i> | | December 2021 |
| Minor: | <i>Cybersecurity</i> | | |
| | ▪ IT419 | Enterprise Cyber Defense | A |

Scholarships: National Science Foundation Scholarship for Service "*Old Dominion University Cyber LeADERS Scholars Program*" – full scholarship funding for master's degree in Cybersecurity
2022 - 2023
National Science Foundation S-STEM project "*Pathway to Completion for Pursuing Engineering and Engineering Technology Degrees*" - received scholarship funding for high performing veteran students at ODU
2018 - 2021

PROJECTS

Implementation of IoT Devices for Process Stream Analysis and Operations Optimization
Senior Design Project: Busch Vacuum Systems & Old Dominion University Research Initiative
Advisor: Dr. Vukica Jovanović

Newport News Apprentice Night School, Newport News, Virginia
Shipfitter: Completed two mechanical table drafting courses
2015 - 2016

PUBLICATIONS

Jovanović, V., Crespo, M., Marshall, D., Popescu, O., **Brown, D.**, Kuzlu, M., Katsioloudis, P. Vahala, L. (2021). "A Look into Increasing the Number of Veterans and Former Government Employees Converting to Career and Technical Cybersecurity Teachers", 2021 Annual Conference and Exposition, American Society of Engineering Education, Virtual, July 2021 (paper accepted).

RESEARCH EXPERIENCE

Old Dominion University, Norfolk, VA
Graduate Research Assistant (January 2022 – Present)
Virginia Modeling Analysis and Simulation Center – Suffolk, Va.

- Preparing publication documentation for undergraduate research on Cybersecurity Career and Technical Education work with Old Dominion University and Norfolk Public Schools.
- Researching AWS infrastructure security models for Virginia Map indexing project: Open Datacube
- Completed AWS Certified Cloud Security Practitioner course, preparing for testing

Undergraduate Researcher (October 2021 – December 2021)

Senior Design Project - Busch Vacuum Systems & Old Dominion University Research Initiative

- Assigned to research and implement Internet of Things sensor network by direction of corporate managers.
- Researched security framework resulting from vendor solution recommendations & implementations.
- Highlighted single point of failure existing for raw data metrics transmitted and maintained outside corporate controlled domain environment.
- Educated steps to introduce Zero-Trust Security Model and Cyber Risk Mitigation Efforts

Undergraduate Research Assistant (January 2020 – December 2021)

"Computer Science Principles and Cybersecurity Pathway for Career and Technical Education", a project funded by the U.S. Department of Education - Perkins Innovation Project - Old Dominion University and Norfolk Public Schools - PI. Dr. Vukica Jovanović

- Mentored 6 junior High School students for Cyberpatriot Competition and Research Activities.
- Developed 6 cybersecurity educational modules for Norfolk City Public Schools for Career and Technical Education high school teachers and students.
- Developed 2 "Research career opportunities for cybersecurity professionals & Cybersecurity and Future Military Career" educational modules for ROTC and cybersecurity pathway.
- Developed modules "Using Digital Applications" and "Exploring Network Fundamentals" for IT Fundamentals course - for CTE teachers and high school students.

Undergraduate Research Assistant (August 2018 – May 2019)

"Creating the Fleet Maker", a project funded by the Office of Naval Research, PI Dr. Anthony W. Dean

- Served as an undergraduate teaching assistant in additive manufacturing workshops, multiple workshops with 20 active-duty Naval personnel to introduce 3D printing technologies and techniques to benefit their respective unit missions
- Responsible for the maintenance and upkeep of seven additive manufacturing machines and reverse engineering equipment in Kaufman Hall 116, Batten College of Engineering and Technology

Newport News Shipyard, Newport News, VA

February 2015 – August 2016

Shipfitter

- Built reactor structure for the Virginia Class Submarine program in a nuclear reactor vessel crew

LEADERSHIP EXPERIENCE

United States Navy, Hospital Corpsman

September 15, 2008 – September 14, 2014

Senior Line Corpsman, Kilo Company Fleet Marine Force

- 3rd Infantry Battalion, 5th Marine Regiment, Camp Pendleton, CA
- 15th Marine Expeditionary Unit with operations in CENTCOM area of responsibility

Assistant Leading Petty Officer, Post Anesthesia Care Unit

- Portsmouth Naval Medical Center, Portsmouth, VA

Security Clearance: Secret (Expired December 2017)



TECHNICAL SKILLS & CERTIFICATIONS

Technical & Software: Physical and virtual networking with pfSense software, MacOS, Linux, and Windows architecture proficiency, Office Software Suites, Autodesk (AutoCAD, Inventor)

Other Certifications: Prior Barbell Club Coach at CrossFit Norfolk

Other Certifications: American Heart Association Heartsaver First Aid CPR AED (Expires: Dec 2022)

PROFESSIONAL AFFILIATIONS

Institute of Electrical and Electronics Engineers, Member # 97100070

American Society for Engineering Education, Member # 130291