Andre Alves
Information Engineering Student

Personal Details

- Hamburg, Germany
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- andre-a-alves
- andre-a-alves

Education

| 2019 - Present | **Bachelor of Science in Information Engineering** | Hamburg |
| | Hochschule für Angewandte Wissenschaften Hamburg | GPA 0.0 |

- Equivalent of Computer Engineering in US universities.
- Recipient of *Excellence Scholarship* for high academic performance.

| 2007 | **Bachelor of Science in Physics** | Annapolis, Maryland (USA) |
| | United States Naval Academy | GPA 2.0 |

| 2003 | **High School Diploma** | Neptune City, New Jersey (USA) |
| | Monmouth County Academy of Allied Health and Science | GPA 1.0 |

Personal Projects

Sorting Visualizer
Application that visualizes and animates various sorting algorithms, including selection, insertion, merge, heap, and quick sort algorithms. **Java**

LZW Compressor
Application that performs LZW compression on files, but also has a feature to perform LZW at the string level to allow for visualizing the algorithm. **Java**

Quantum Simulator
Application that simulates a quantum computer. created as a challenge for the Quantum Open Source Foundation. **Python**

Experience

| Aug 2020 - Current | **Undergraduate Research Assistant** | Hamburg |
| | Hochschule für Angewandte Wissenschaften Hamburg | |

- Performed a literature review of photovoltaic system power inverter physics-of-failure modeling.
- Developed SPICE and MATLAB models of three-phase photovoltaic power inverter.
- Setup Linux server for Comsol Multiphysics simulation software and performed all sysadmin duties.

| Oct 2019 - Jul 2020 | **IT Service and Support Associate** | Hamburg |
| | Deposit Solutions GmbH | |

- Developed and implemented management solutions and workflows for a fleet of more than 50 MacBooks.
- Developed, wrote, and improved documentation and guides for more than a half-dozen workflows.
- Wrote and distributed custom Shell Script app automate printer installation for the company's Macs.

| Jul 2018 - Apr 2019 | **Entrepreneur** | San Antonio, Texas (USA) |
| | Monk and Dagger Brewing Company LLC | |

| Jan 2013 - Jul 2018 | **Foreign Service Officer** | Caracas, Venezuela · Washington, D.C. (USA) |
| | U.S. Department of State | |

- Advised senior and Washington-based officials on matters related to Latin America.

May 2007 - Jan 2013	**Communications Officer**	USA · Afghanistan
	U.S. MARINE CORPS	

- Led and managed organizations of Marines ranging in size from 55 to more than 100 individuals, including a unit geographically dispersed across an entire continent.
- Designed and supervised the installation, operation, and maintenance of the radio and satellite network architecture carrying all communications (data, phone, and radio) for multiple military operations, including a network responsible for all communications in the southern region of Afghanistan during active NATO combat operations.
- Responsible at times for equipment worth more than $13 million.

Skills

Programming Languages	Java · C · Python · VHDL · Matlab · Bash (Shell Script)
Operating Systems	Windows · Linux · MacOS
Simulation	Matlab/Simulink with Simscape · LTSpice
SysAdmin	OpenSSH · UFW Firewall · XRDP Remote Desktop Server
Other Skills	Soldering · LaTeX/CircuiTikz · AutoDesk Eagle · Git · Jira · Confluence · Mendeley Reference Manager
Soft Skills	Public speaking · Teamwork · Leadership · Multicultural environments
Languages	English (Native) · Portuguese (Fluent) · Spanish (Fluent) · German (Beginner)

John Hancock

Hamburg
2024-03-19