

ANDRE ALVES

Information Engineering Student



Personal Details

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🏠 United State of America
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Education

2019 - Present	Bachelor of Science in Information Engineering HOCHSCHULE FÜR ANGEWANDTE WISSENSCHAFTEN HAMBURG <ul style="list-style-type: none">• Equivalent of Computer Engineering in US universities.• Recipient of <i>Excellence Scholarship</i> for high academic performance.	Hamburg GPA 0.0
2007	Bachelor of Science in Physics UNITED STATES NAVAL ACADEMY	Annapolis, Maryland (USA) GPA 2.0
2003	High School Diploma MONMOUTH COUNTY ACADEMY OF ALLIED HEALTH AND SCIENCE	Neptune City, New Jersey (USA) 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 HOCHSCHULE FÜR ANGEWANDTE WISSENSCHAFTEN HAMBURG <ul style="list-style-type: none">• 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.	Hamburg
Oct 2019 - Jul 2020	IT Service and Support Associate DEPOSIT SOLUTIONS GMBH <ul style="list-style-type: none">• 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.	Hamburg

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| Jul 2018 -
Apr 2019 | Entrepreneur
MONK AND DAGGER BREWING COMPANY LLC | San Antonio, Texas (USA) |
| Jan 2013 -
Jul 2018 | Foreign Service Officer
U.S. DEPARTMENT OF STATE | Caracas, Venezuela · Washington, D.C. (USA) |
| May 2007 -
Jan 2013 | Communications Officer
U.S. MARINE CORPS | USA · Afghanistan |
- Advised senior and Washington-based officials on matters related to Latin America.
 - 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

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| 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) |



Hamburg
2021-02-22