

# ANDRE ALVES

Information Engineering Student



## Personal Details

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## Education

2019 - Present	<b>Bachelor of Science in Information Engineering</b> HOCHSCHULE FÜR ANGEWANDTE WISSENSCHAFTEN HAMBURG	Hamburg GPA 0.0
	<ul style="list-style-type: none"><li>• Equivalent of Computer Engineering in US universities.</li><li>• Recipient of <i>Excellence Scholarship</i> for high academic performance.</li></ul>	
2007	<b>Bachelor of Science in Physics</b> UNITED STATES NAVAL ACADEMY	Annapolis, Maryland (USA) GPA 2.0
2003	<b>High School Diploma</b> 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. <b>Java</b>
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. <b>Java</b>
Quantum Simulator	Application that simulates a quantum computer. created as a challenge for the Quantum Open Source Foundation. <b>Python</b>

## Experience

Aug 2020 - Current	<b>Undergraduate Research Assistant</b> HOCHSCHULE FÜR ANGEWANDTE WISSENSCHAFTEN HAMBURG	Hamburg
	<ul style="list-style-type: none"><li>• Performed a literature review of photovoltaic system power inverter physics-of-failure modeling.</li><li>• Developed SPICE and MATLAB models of three-phase photovoltaic power inverter.</li><li>• Setup Linux server for Comsol Multiphysics simulation software and performed all sysadmin duties.</li></ul>	
Oct 2019 - Jul 2020	<b>IT Service and Support Associate</b> DEPOSIT SOLUTIONS GMBH	Hamburg
	<ul style="list-style-type: none"><li>• Developed and implemented management solutions and workflows for a fleet of more than 50 MacBooks.</li><li>• Developed, wrote, and improved documentation and guides for more than a half-dozen workflows.</li><li>• Wrote and distributed custom Shell Script app automate printer installation for the company's Macs.</li></ul>	

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|------------------------|--|---|
| Jul 2018 -<br>Apr 2019 | <b>Entrepreneur</b><br>MONK AND DAGGER BREWING COMPANY LLC | San Antonio, Texas (USA)                    |
| Jan 2013 -<br>Jul 2018 | <b>Foreign Service Officer</b><br>U.S. DEPARTMENT OF STATE | Caracas, Venezuela · Washington, D.C. (USA) |
| May 2007 -<br>Jan 2013 | <b>Communications Officer</b><br>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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| <b>Programming Languages</b> | Java · C · Python · VHDL · Matlab · Bash (Shell Script)  |
| <b>Operating Systems</b>     | Windows · Linux · MacOS  |
| <b>Simulation</b>            | Matlab/Simulink with Simscape · LTSpice  |
| <b>SysAdmin</b>              | OpenSSH · UFW Firewall · XRDP Remote Desktop Server  |
| <b>Other Skills</b>          | Soldering · LaTeX/CircuiTikz · AutoDesk Eagle · Git · Jira · Confluence · Mendeley Reference Manager |
| <b>Soft Skills</b>           | Public speaking · Teamwork · Leadership · Multicultural environments                                 |
| <b>Languages</b>             | English (Native) · Portuguese (Fluent) · Spanish (Fluent) · German (Beginner)                        |



Hamburg  
2021-02-21