

# Popescu Mircea

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Summary	I am a third-year student at the Faculty of Electronics in Iași, with a passion for electronics and the development of embedded software, and with practical experience in the automotive field. I am interested in developing my skills and learning new technologies in my field of study.	
Experience	<b>Continental Automotive</b> Software developer helper - Internship	<b>July 2023 - Present</b> Iasi, Romania
<ul style="list-style-type: none"><li>I created a robot that used a custom artificial intelligence model, from a camera feed, to detect when it was stuck and avoid obstacles, but in case it got stuck, I used image processing to get the robot out of the blockage, with the help of an arduino, an hbridge, a jetson nano, a 12v to 5v converter (for arduino) and a 12v to 24v converter (for dc motors).</li><li>I used a jetson nano with a camera attached to a robotic arm with 6 degrees of freedom to lift objects using a custom object detection model.</li><li>I helped with the software integration of the windshield washer motors for an automotive project of a well-known brand.</li><li>I created automated tests for testing the ADC values for an engine computer.</li><li>I created an automation tool for any type of excel file.</li></ul>		
Education	<b>Faculty of Electronics, Telecommunications and Information Technology</b> Applied Electronics	<b>2021 - Present</b> Bachelor's degree
Projects	<b>C++ secure loader</b> 🔗 <a href="https://github.com/mircea32000/secure_dll_loader.git">https://github.com/mircea32000/secure_dll_loader.git</a> <ul style="list-style-type: none"><li>Designed and implemented a highly secure C++ DLL loader using industry-standard SSL encryption to ensure the safety and integrity of loaded DLL bytes.</li><li>Developed a license management system that provides efficient and reliable management of software licenses, enhancing the user experience and ensuring proper usage of software.</li><li>Streamlined the process of loading DLL bytes directly into application memory, resulting in faster application performance and increased user satisfaction.</li><li>Researched and implemented security measures in the development of a highly secure DLL loader using C++.</li></ul> <b>Game-Cheating project</b> 🔗 <a href="https://github.com/mircea32000/csgocheat.git">https://github.com/mircea32000/csgocheat.git</a> <ul style="list-style-type: none"><li>Conducted in-depth analysis of the game's code to uncover previously unknown exploits and vulnerabilities.</li><li>Utilized reverse engineering techniques to gain a deep understanding of the game's mechanics and underlying systems.</li><li>Developed a custom cheating tool using advanced algorithms to leverage these exploits and gain an unfair advantage in gameplay.</li><li>Dedicate extensive effort towards ongoing development and optimization of the cheating tool, outpacing anti-cheat software and ensuring maximum efficacy in gameplay.</li><li>It is crucial to highlight that this project was created solely for educational purposes and not utilized in any malicious or harmful manner.</li></ul>	
Skills	<b>Languages</b> Embedded C, C, C++, Python, PIC16 ASM, JavaScript, Matlab, VBA, PHP, HTML5, CSS3 <b>Databases</b> MySQL <b>Tools</b> WinIdea, Doors, IDA PRO, Visual Studio Code, Visual Studio, Eclipse, Ghidra, x96DBG, Git, Git Extensions, GitHub, Oracle Cloud, SWAT, AutoSAR <b>Libraries</b> ResNet18, OpenCV, YOLOV7, NumPy, PyTorch, TorchVision, PySerial, Dear ImGui, Win32Com, WinAPI, OpenPyXL, Blackbone, CURL, JSON <b>Others</b> Reverse engineering, Communication, Electrical engineering knowledge	
Languages	<b>Romanian , English</b>	