

# Project Constraints Essay

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Several constraints impact the development and implementation of our solution, including ethical, security, and social areas. From an ethical standpoint, my project involves the detection of security vulnerabilities in hardware design modules, which raises questions about how to report such vulnerabilities so they can be fixed. It is essential to handle all vulnerabilities and report them responsibly so weaknesses can be fixed before they can ever be exploited. The security constraint is also essential to my project, as my project deals with vulnerabilities that could expose weaknesses in systems. I must make sure that if I find any vulnerabilities in production systems that they are not shared with untrusted parties. Finally, the social implications of my project is significant because improving hardware security benefits the broader community by protecting users from potential cyberattacks or system failures. Identifying vulnerabilities earlier in the design phase allows developers to fix them easier and create a more secure design. This project will hopefully lead to the development of safer and more reliable hardware designs. These constraints will shape how I design and test my detection tool, ensuring that I meet these constraints.