

Thesis Portfolio

Identyti: Digital Storage of Personal Identification Documents

(Technical Report)

Voting Machine Security in the United States

(STS Research Paper)

An Undergraduate Thesis

Presented to the Faculty of the School of Engineering and Applied Science

University of Virginia • Charlottesville, Virginia

In Fulfillment of the Requirements for the Degree

Bachelor of Science, School of Engineering

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Sociotechnical Synthesis

My STS project is investigating the security and reliability of voting machines in the United States and applying the Anticipatory Governance Framework to the problem. It explores in detail the security vulnerabilities of a voting machine and potential methods to prevent exploitation of those vulnerabilities. My Technical Project is focused on personal identity management. My team created a tool to allow users to store and save their personal documents and share those documents with enterprises that may request them such as the DMV. While there is potentially an overlap between voting and personal identification document storage in the future, these two projects did not overlap.