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# RESEARCH IN SECURE RANDOM VALUE GENERATION

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# RESEARCH IN SECURE RANDOM VALUE GENERATION

SHAPE SECURITY, SILICON VALLEY 2016

A Major Qualifying Project Report  
Submitted to the faculty of  
WORCESTER POLYTECHNIC INSTITUTE

by

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March 4, 2016

Approved: \_\_\_\_\_

Professor David Finkel, Project Advisor

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## **Abstract**

Shape Security stops automated web and mobile application attacks using a combination of obfuscation and transformation using a stateless appliance. This MQP involved security research in random value generation and the development of a prototype to increase the reliability, performance and security of one of Shape Security's Product.