ENHANCED SECURITY FEATURES
FOR MOBILE DEVICES

INDUSTRY CONTACTS
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UOIT FACULTY MEMBER
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BACKGROUND
Phirelight Security Solutions (PSS) specializes in cryptographic solutions for protecting all levels of digital information. There is market interest in improved security for mobile devices because hackers are often able to break through new security with ease. Companies in the market are constantly trying to stay ahead of cyber threats.

With funding from the ARC Initiative, PSS teamed up with Dr. El-Khatib and a team of FBIT students to experiment with a new platform in security solutions.

The focus of the project was to design and define architecture needed to integrate with standard security features so new security systems will be multi-faceted with several IT security technologies in place. Once the research stage was complete, they created an application that can use a cellular device’s camera to capture the user’s face as it simultaneously scans a QR code or security code. The goal was to verify identity more thoroughly than passwords, which are often compromised.

The UOIT students were: Mouhcine Guennoun, a PhD student; Mohammad El-Sukhni, Master of Science candidate; and Mihai Chirac and Bogdan Deuritriu, Master of Information Technology Security candidates.

The students were responsible for research, design, development and testing stages of the project.

OUTCOMES
The students were provided with hands-on, industry experience using advanced software. The company now has the knowledge to move forward with a design as supplied by UOIT.

ABOUT FEDDEV ONTARIO
The Federal Economic Development Agency for Southern Ontario (FedDev Ontario) was created as part of Canada’s Economic Action Plan to support businesses and communities in southern Ontario as part of the Applied Research and Commercialization (ARC) Initiative. ARC is a pilot program designed to address the gap between small- and medium-size enterprises and post-secondary institutions. Launched in 2010, ARC’s goal is to accelerate innovation, improve productivity, create jobs and contribute to the creation of globally competitive Ontario companies with fewer than 1,000 employees.

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