

Final R&D Project Presentation from Cycle 8 BCIS program students

Written by Nguyễn Thị Phương Hằng

Tuesday, 05 June 2018 00:00 - Last Updated Tuesday, 23 October 2018 11:02

On June 4th, 2018, students from cycle 8 Bachelor of Computer and Information Sciences program, a joint program between Ho Chi Minh University of Science, VNUHCM and Auckland University of Technology (AUT), New Zealand, completed the R&D Projects.

This year's projects came from companies like Robert Bosch Engineering and Business Solutions Vietnam, TMA Solutions, Global Cybersoft, Fromlabs Pte.Ltd, Amaris Vietnam, and FPT Vietnam.

ITEC would like to show gratitude towards the presence of the representatives of companies providing topics and the employers from the following companies: Home credit Vietnam, NashTech Vietnam, Manpower Group, VITOP Media, and NIFTIT Vietnam.

The list of topics is available at <https://goo.gl/vfKxdy>

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A group photo taking with the Council

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Botsina Group - Client: Global Cybersoft Vietnam

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Cross-platform Group - Client: Fromlabs Pte.Ltd, Singapore

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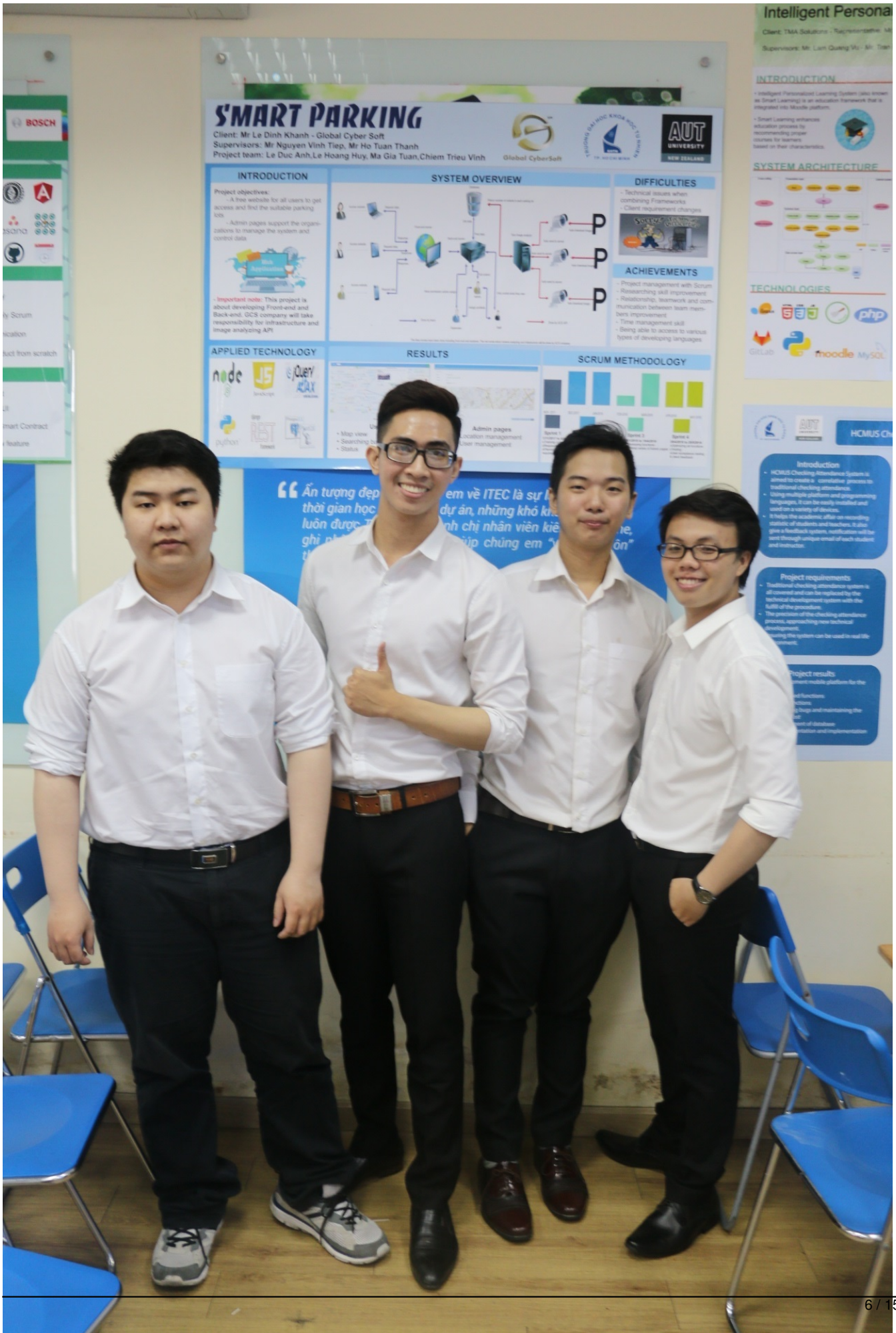


Mesh Networking Group - Client: Fromlabs Pte.Ltd, Singapore

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Smart Parking Group - Client: Global Cybersoft Vietnam

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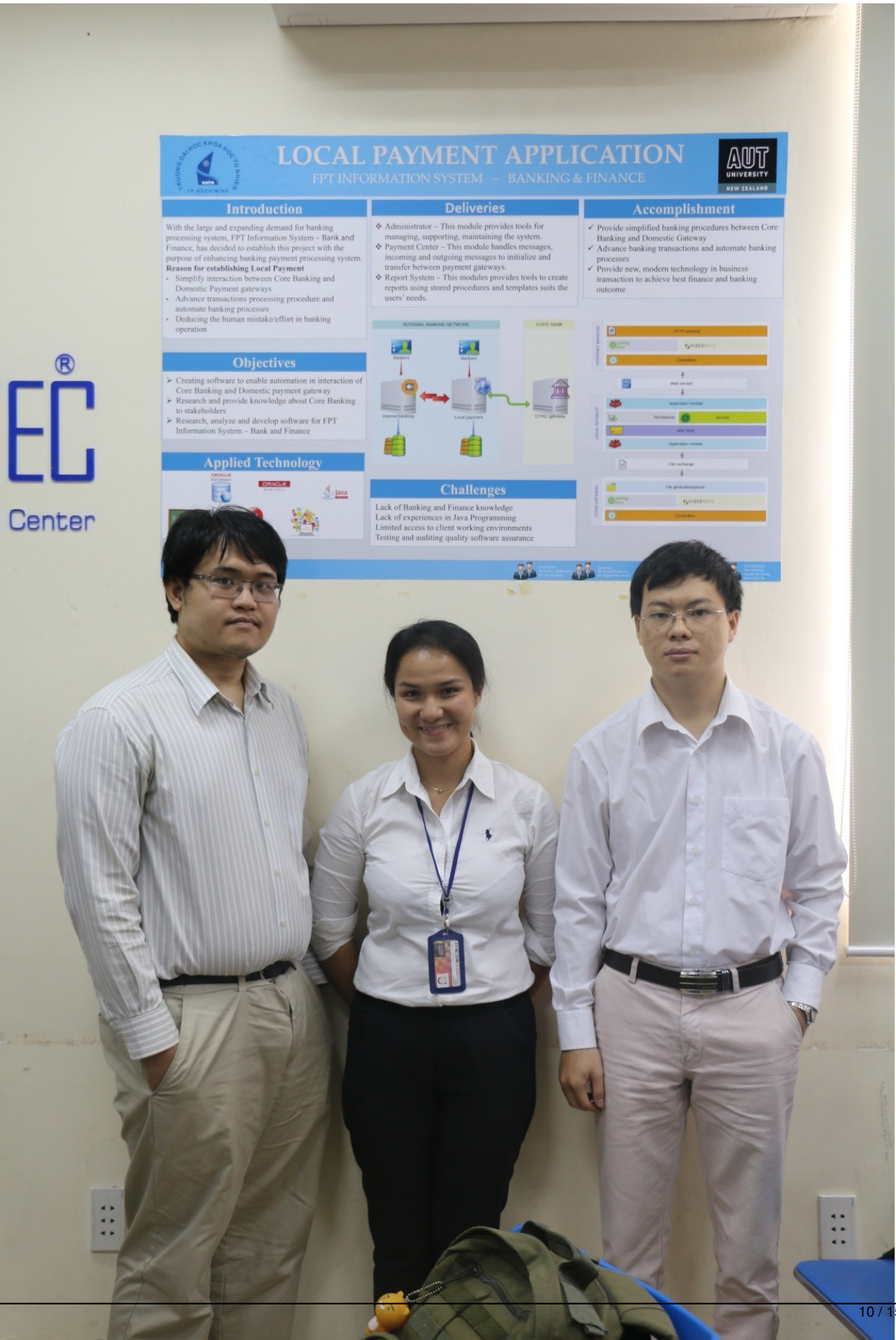


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Intelligent Personalized Learning System Group - Client: TMA Solutions



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Local Payment Group - Client: FPT Vietnam

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AUT UNIVERSITY NEW ZEALAND
TRƯỜNG ĐẠI HỌC KINH HOÀNG ĐẠI VIỆT

BOSCH

eVoting Blockchain

Team Member: **Nguyen Trong Tri** 16943739
Team Member: **Pham Huynh Tri Minh** 16942517
Supervisor: **Msc. Le Ngoc Son** HCMC University of Science
Client: **Mr. Hoang Le Minh** Robert Bosch Engineering and Business Solutions Vietnam Co., Ltd

Objectives

- Research Blockchain technology
- Study voting issue
- Come up with solution
- Build POC eVoting blockchain product

Voting Issues

- Rely on 3th party
- Data is not transparent
- Lack of robustness
- Personal information is insecure

System Workflow

Diagram showing the flow: User → Convert → VoteChain → Blockchain Network → Result. Includes labels for 'Send transactions', 'Return', 'Blockchain', and 'VoteChain'. Features: Transparent, Anonymous.

Achievements

- Objectives: All objectives proposed have been fulfilled.
- Knowledge and Experience: Increased in blockchain.
- Technologies: Hands-on with Solidity, JavaScript, and Node.js.
- Competency: Soft skills and technical skills.

Challenges

- New technology
- First time apply Scrum
- Miscommunication
- Build product from scratch

Future Works

- Deploy product
- Improve UX/UI
- Optimize Smart Contract
- ... feature

Progress Tracking

Timeline: Research (April 1-4), Development (April 5-10), Test (April 11-16). Stages: Planning, Design, Development, Testing, Reports.

Technology

Stack: Truffle, Ethereum, Angular, HTML, CSS, Bootstrap, Node.js, Express, MongoDB, Redis, Docker, Kubernetes.

Layer Structure

Front End, Back End, Blockchain, Network.

Product

Screenshots of the eVoting Blockchain application interface.

“Chương trình công nghệ xoay quanh nhu cầu không chỉ mang đến cho em một khóa học mà còn là học mà chơi, chơi mà học.”

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Sotobis Application Group - Client: Robert Bosch Engineering and Business

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Event Management system Group - Client: Amaris Vietnam



HCMUS Attendance Checking System Group - Client: HCM University of Science