



ST ELECTRONICS (TRAINING & SIMULATION SYSTEMS) CONSORTIUM'S SOLUTIONS FOR HWA CHONG INSTITUTION: HWA CHONG NEXUS

Members

- Addest Technovation Pte Ltd
- FiF Technologies LLP
- Microsoft Singapore Pte Ltd
- Sky Media Pte Ltd
- Temasek Polytechnic
- Vantage Portal Systems Pte Ltd

The Solution

The proposal's main focus is to develop an all encompassing e-learning solution which addresses borderless communications, linking up learning communities 'live' across cultural boundaries, catering to both independent and group learning. The solution is catered to the specific needs of Hwa Chong Institution (HCI), characterised by a group of independent students who learn at various paces, with the freedom to conduct in-depth research for various topics with local or overseas partners and mentors.

The proposal for HCI includes the Hwa Chong Nexus (HCnX), a virtual campus designed to facilitate independent learning and collaborative explorations. Leveraging the school's established partnerships both locally and internationally, the HCnX enables different groups of independent learners to conduct advanced research with local and overseas peers as well as expert-mentors in a safe and secure learning environment. Advanced communication tools and collaborative platforms bring HCI students together with mentors and peers overseas to form global communities of learners.

With the point of entry from the HCnX portal, teachers and students can access multiple key features such as:

- **Hwa Chong Tube**
A personalised site for teachers and students to upload and stream educational content while allowing social networking to occur.

- **Independent Learning System**

This student-centric application enables teachers to set the syllabus while students determine their own learning paths. Thus this can help achieve individualised and cooperative learning.

- **Research and Partnership Portal**

This community-based application aims to allow for mentor-pupil matching search, online conferencing collaboration and live real-time sharing, bringing together alumni, industry partners, domain experts, school staff, parents and students (both local and overseas) into Hwa Chong's research environment.

There will also be Interactive Digital Media (IDM) based content featured in the solution. Besides having Chinese Games, there will also be interactive virtual field trips that allow students to experience and access locations that are not easily accessible in real life.

Contact ST Electronics (Training & Simulation Systems) Pte Ltd

Ms Sharon Ng
Senior Executive (Marketing Communications)
24 Ang Mo Kio Street 65, Block D, Level 4
Singapore 569061
Tel: (65) 6413 1454
Fax: (65) 6482 6162
Email: sharonng@stee.stengg.com
Website: www.stee.stengg.com

FutureSchools@Singapore is a joint initiative by:





Hwa Chong Institution FutureSchool Programme Highlights

Key Focus - A Passion-Driven and Borderless Learning Institution

The HCI programme aims to combine technology with new ways of learning to create educational value. This is achieved by creating opportunities beyond the school's physical campus at Bukit Timah, so that learning transcends boundaries between subjects, classrooms, schools, countries and cultures.

The HCI programme further seeks to empower students to pursue their passion. To this end, an integrated system, HCnX has been designed to facilitate independent learning and collaborative explorations. HCnX will leverage personal communications technology devices students already own to support diverse learning styles and a broad range of assessment strategies. Specifically, HCnX caters to both independent and collaborative learning:

- **Independent Learning Gateway:** This provides a point of entry into a suite of IDM infocomm technology (ICT) tools that will enable individuals to acquire new knowledge through active self-study. Students will choose from a myriad of learning content, receive instructional support, and make study plans (both virtual and physical) with the ICT-enabled network learning support. This function enables different groups of independent learners to conduct advanced research with local and overseas peers as well as expert-mentors in a safe and secure learning environment.

- **Virtual Learning Communities (VLC) Portal:** By providing a Web 2.0-style collaborative learning environment, this channel enables students from different countries across continents to work together to solve a research problem or create a product. Seniors and juniors can also work collaboratively in teams on self-directed projects. Together with mentors from the university and industry, students negotiate their learning and become active producers of knowledge. The bringing together of expert mentors and resources empowers students to build knowledge in authentic and virtual platforms.

