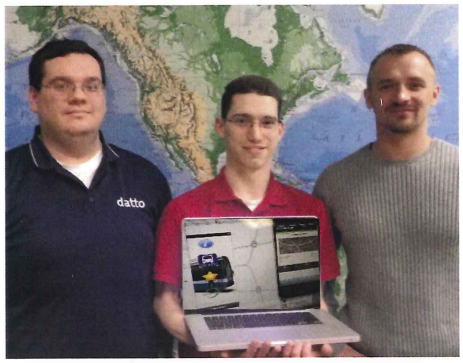
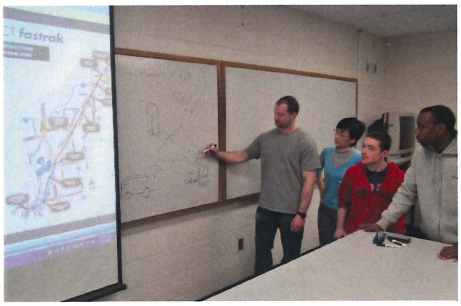
CEGT Students and Faculty Contributing to CTfastrack



Under the advisement of **Dr. Karen Coale Tracey**, graduate students **Kevin Barros**, **Pawel Michna**, and **David Lasecki** of the Computer Information Technology program are working on a Capstone project: CTfastrak application. The project, one of many joint ventures between the Connecticut Department of Transportation and CCSU aims to provide an easy, user friendly mobile application to track the real time location of a transit bus in the upcoming CTfastrak line, a fast and reliable service in the heavily-travelled New Britain to Hartford corridor. The application will allow integration with Google Maps to show amenities around the transit stops and user location. This project will provide as a core foundation for future group's research and implementation ideas.

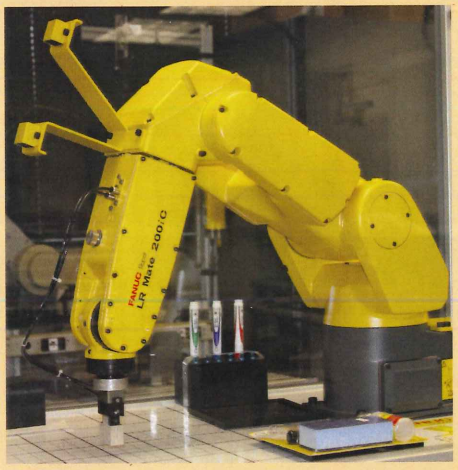
Another venture was started by Computer Engineering Technology (CET) undergraduate students **Shane Carroll**, **Keith Boyd-Carter** and **James Krostoski** working on their senior capstone project under the advisement of **Dr. Shuju Wu**. The project targets a Bus Route Tracking and Trip Planning System for the CTfastrak line and includes three modules: bus-side application, server-side application, and user-side application. With this system, each transit bus will be equipped with GPS and network communication capability to report real-time location and delay information to the transit bus center (server-side). Passengers at any location with a data connection on mobile devices will be able to track buses in a route with delay information and schedule their activities accordingly. Based



on the real-time information, trip plans could be arranged/re-arranged. This system will offer great convenience to passengers at locations close to a bus stop such as coffee shop, shopping mall or a CCSU classroom (CCSU is one of the connectors to the transit system).

Students will demonstrate the knowledge and skills they acquired at CCSU by integrating system design, application development and network communication in their projects. Although motivated by CTfastrak, the finished projects can be easily implanted to other transit systems.

Robotics and Mechatronics Engineering Technology



Robotics and Mechatronics Engineering Technology (RMET) is a new major launched in the Fall of 2012. RMET students will embrace a holistic approach to engineering, balancing electrical and mechanical engineering, computer science and more. The forward motion of RMET is truly on the cutting edge of technology and is driven by manufacturing workforce needs. Similar programs have launched recently in other regions, but CCSU is the first to answer the call for this program in New England.

The demand for graduates trained in robotics and automation is recorgnized at CCSU thanks to the close relationship with manufacturing partners within the state. An Industrial Advisory Board consisting of professionals from engineering and manufacturing firms has provided significant support and input for this program. **Dr. Ravindra Thamma** says most of the course work is dependent on what local industry leaders are telling him and what he's seeing in their workplace: "when we go out to industries we see something getting done and we come back and think about how to incorporate it into the classroom. All this is coming straight from the businesses."

The RMET degree is still in its infant stages at CCSU. It boasts a small number of students right now who are enrolled in the introductory levels. Many students who have not yet enrolled in the program have spent the year handling General Education requirements, preparing to enter the degree in the Fall of 2013.

Intelligent Transport System (ITS)

Dr. Bin (Brenda) Zhou and students in her Topics: Advanced Transportation Planning and Engineering class (ET 495/ ET 500) investigated Intelligent Transport System (ITS) and public opinions on ITS applications in Connecticut by developing, distributing and analyzing a travel survey questionnaire. The survey collected data on demographics, opinions on ITS safety devices, opinions on ITS applications for transit and responses to hypothetical scenarios. Interesting findings are: travelers have low willingness to spend money on safety-improving ITS devices; automated fare collection (which has a great potential to reduce travel time for users and save operating cost for carriers) seems not a popular ITS application in Connecticut; transit authority website is slightly more preferred than other medium, but there is no single "winner" in broadcasting real-time travel information.

2012 - Inaugural Dean's Citation Award

On May 29, 2012 at the annual School of Engineering and Technology Student Recognition Reception, **Adam Goldreich**, BS Mechanical Engineering '12 was presented with the first Dean's Citation Award. The School of Engineering and Technology Dean's Citation Award is designed to recognize students who have made significant contributions to the School of Engineering and Technology through leadership, academic success and/or significant volunteer contribution to other students within the school.