

IMAGINE. INNOVATE. CREATE.

ATC NEWS

| VOLUME 2 | ISSUE 3 | APRIL 2010 |



Can you imagine a day where we can no longer depend on the reliability of our telecommunications infrastructure, or where Northrop Grumman, Newport News is unable to produce an Aircraft Carrier? Did you know that much of the nation's workforce is graying and that

individuals with advanced technical training will continue to be in high demand? This is certainly true in the cases of the Telecommunications and Marine Engineering & Design job sectors.

According to the Bureau of Labor Statistics (BLS), "Job openings are expected to rise in the telecommunications industry as a result of the growing number of retirements and the continuing need for skilled workers." This should be particularly encouraging for our Telecommunications and Cisco Academy students. BLS reports that the median income for workers with the quality of educational experience received in these ATC programs will range from \$27.00 and \$33.00 an hour.

With regards to Marine Engineering & Design, BLS reports, "Marine engineers and naval architects are expected to have employment growth of 6 percent over the projections decade..." and that "Good prospects are expected for marine engineers and naval architects because of growth in employment, the need to replace workers who retire or take other jobs, and the limited number of students pursuing careers in this occupation..." and that the median yearly income exceeds \$74,000. This should be exceptionally good news to hear for our students who are already collaborating with professionals from Northrop Grumman's Apprentice School on a regional boat design competition.

If you're interested in one of these programs, or are possibly unsure of what career direction you may want to follow; please visit our website at www.imagineinnovatecreate.com to learn more about the outstanding educational opportunities available at the Advanced Technology Center. We look forward to hearing from you soon!

Sincerely,

Michael D. Taylor
Director

mdtaylor@vbschools.com



THE ADVANCED TECHNOLOGY CENTER IS ENROLLING NOW!

VISIT

[HTTP://WWW.VBATC.COM/ATC-APP-2010-11.PDF](http://www.vbatc.com/atc-app-2010-11.pdf)
TO DOWNLOAD AN APPLICATION

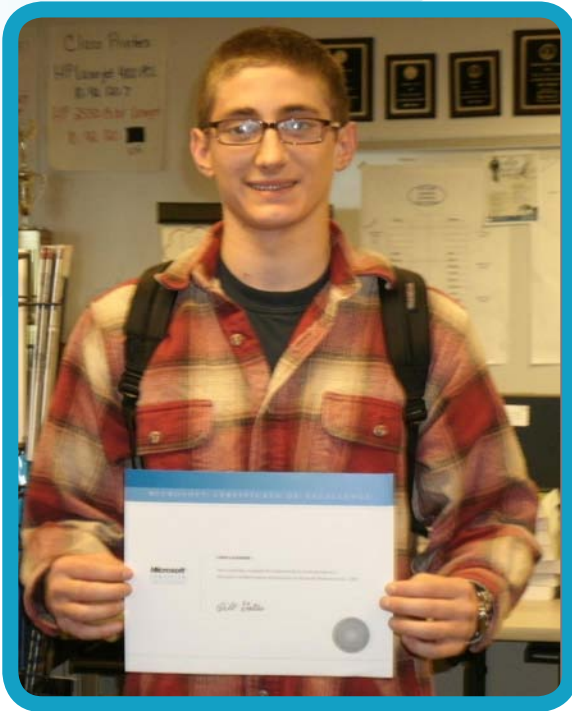


FOR MORE INFORMATION
www.imagineinnovatecreate.com
OR
648-5800 ext. 0

ADVANCED TECHNOLOGY CENTER
1800 College Crescent
Virginia Beach, VA 23453

INFORMATION TECHNOLOGY

COMPUTER NETWORK ADMINISTRATION (CNA) STUDENTS SCORE WITH NEW CERTIFICATION!



Nick B. is the latest student to earn his MCTS certification.

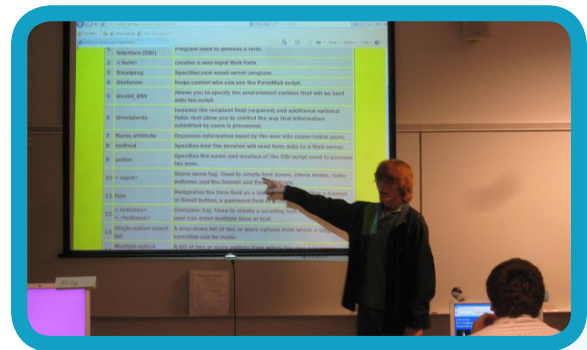
Thirteen seniors in the CNA program recently passed the new certification on Microsoft Server 2008 and now proudly claim the title of Microsoft Certified Technology Specialist (MCTS). Hands-on activities continue on server management and the next level of certification will include new testing from Microsoft involving live simulations in a virtual environment.

SHORT AND "TWEET"



The CNA class uses Twitter to keep in touch with students, parents, alumni and more. This hot Web 2.0 technology allows for short, quick updates on technology news, certification changes, class schedules and even let parents know when we had some recent phone glitches. Twitter has allowed us to contact national companies, offer extra credit to Web savvy students and serves as an easy to use tool to stay in touch. Join the following at twitter.com/cnatechtalk.

SHORT AND "TWEET"



You use the Internet to search for information, but have you ever wondered how those search buttons, drop down menus, and query menus, etc. are created, all helping to make your search easier? Well, they don't get there by themselves, and here's Kevin K. presenting such information to the rest of his class. Additional research was provided by Kelly N. and Ashley J. too! Well done to you all - it was great!

A+ COMPUTER REPAIR CLASS CONTINUES TO PROVIDE COMMUNITY SUPPORT



Seated: John Joanides, A+ Computer Repair Instructor;
Standing left to right: Kyle C., Josh H., and Shad C., students

The Computer Repair class met with families on February 23, 2010 to distribute refurbished computers at the ATC. This is the second time this school year students had an opportunity to apply their technical skills and give back to the community. The class received a shipment of used government computers through the Virginia STAR (Student Training and Refurbishment) Program in Richmond. Melissa McQuarrie, Director of Media and Communications initiated the partnership with the Virginia STAR program and also assisted in identifying needy families who could benefit from a restored computer.

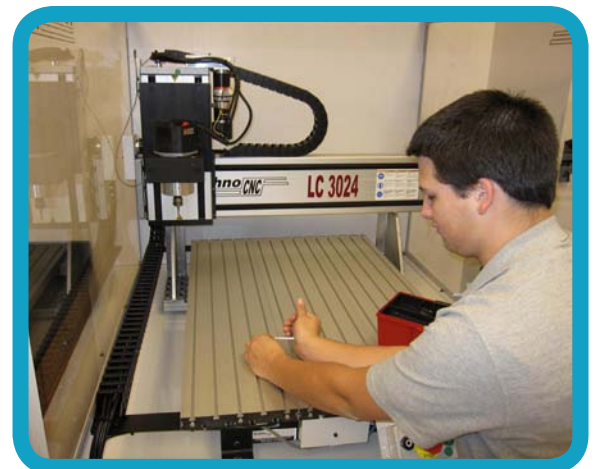
ENGINEERING AND MANUFACTURING

ENGINEERING TECHNOLOGY CLASS RECEIVES NEW EQUIPMENT

by Raymond E.



Joe L., ET student is designing the base of a rocket with the Rapid Prototyping machine.



Chris S., ET student is working on a project with the new CNC router

The Engineering Technology (ET) program received two new machines the first semester of the 2009 - 2010 school year. Using drawings from modeling programs such as Inventor, the Rapid Prototyping machine is capable of producing 3-D models from plastic. The new Computer Numerical Control (CNC) Router is similar to the CNC Mill and Lathe, but has the ability to make larger projects utilizing a wider variety of materials such as wood, plastic, and metal.

ENGINEERING TECHNOLOGY TEAM PLACED FOURTH IN TCC ENGINEERING CLUB COMPETITION



On February 19, 2010, the Engineering Technology students participated in the annual TCC Engineering Club cable car contest. The students had to design and build a vehicle that would rundown a 40' x 1/8" cable, hit a wall, and return to the starting point. The team of Andy C., Jeff T., and Justin L. placed 4th in the overall competition and split the \$25.00 prize.

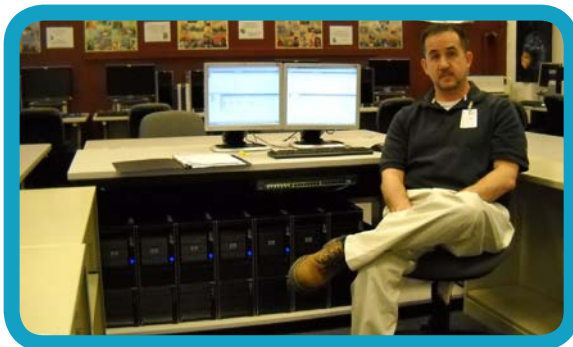
THREE ATC CLASSES ATTEND ODU ENGINEERING DAY



Kevin R. and Johnathan N., ATC ET students, are checking out a ram jet used in jet airplanes

The Marine Engineering, Modeling and Simulation, and the Engineering Technology (ET) classes toured the Engineering Departments during the February 12th annual ODU Engineering Open House. Students participated in a variety of sessions including the ram jet, the modeling and simulation cave, motor sports, robotics, and many others.

RENDER FARM BUILT FOR MODELING AND SIMULATION CLASSES



John Cook, the ATC Network Technician sits in front of the Network Render farm he set up in Bill Jackson's Modeling and Simulation classroom. Mr. Cook says, "With the Autodesk Backburner software, students will be able to send their render jobs to multiple high powered computers that will process individual frames of their animations and then compile them later in sequence." "The Render farm is going to provide my students the opportunity to design more complex models and scenes that will render 90% faster than previously," acknowledges Mr. Jackson.

MARINE ENGINEERING AND DESIGN



Jack Y. and Rainer A. are currently working on modeling various items that are going to be used for the boat they are designing for Northrop Grumman's Society of Naval Architects and Marine Engineer High School Boat Design competition.

ATC AWARDED GRANT



The Advanced Technology Center was awarded a grant funded by the U.S. Department of Labor. The grant, Workforce Innovation in Regional Economic Development (WIRED), is a collaborative effort among Southeastern Virginia Partnership for Regional Transformation (SEVA-PORT) partners, Opportunity Inc., and Virginia Beach City Public Schools. This \$15,000 grant has funded 14 work-based experiences for students in the ATC engineering and manufacturing strand (Computer Aided Drafting and Design, Marine Engineering and Design, Engineering Technology, and Modeling and Simulation courses) to work up to 98 hours. Participants in the grant met the guidelines for the Work Based Experiences and were screened by their instructors. Below are some of the students at their Work Sites.



Basilisa (Lisa) R., Computer Aided Drafting and Design/Marine Engineering and Design student was mentored by Jeff Hyder, Moseley Architects Senior Associate. Lisa had a chance to apply her architectural skills with various projects using several different architectural software packages.

Pictured left to right are: Megan Robinson, Opportunity Inc. SEVA-PORT Manager; Ann Marie C. Garvey, Assistant Director of Student Programs and Business Development; Josue J., ATC Engineering Technology (ET) student; Jacob K., ATC ET student; Joe L., ATC ET student; Simon Nance, Stihl Inc. Manager, Training and Development; Back Row: Rick Sciuillo, Vice President Opportunity Inc.; and Thomas Kuehne, Stihl Inc. Apprenticeship Coordinator

Three ATC Engineering Technology students are participating in a work based experience at Stihl Inc. Students are gaining hands-on experience and learning the foundations of what it takes to be an engineering apprentice.

MARKETING EDUCATION

GOING TO STATE!



Aaron J., D'Andria G., and Brianna D. of the Hotel Operations class show off their winning metals and plaques from DECA's District Leadership Conference held on January 13, 2010 at Ocean Lakes High School. These students from the Advanced Hotel Marketing Class will compete with the top contenders from around the state at DECA's State Leadership Conference on March 13, 2010 at the Norfolk Marriott Hotel. Congratulations and Good Luck to all!

2010 CLASSROOM ON THE MALL DECA OFFICERS



(left to right)
Reporter: Bryan W.
Historian: Katrina A.
President Davon W.
Secretary: Brittani T.

CLASSROOM ON THE MALL (COM) WINS FIRST PLACE AT DECA LEADERSHIP CONFERENCE!



Ms. Creamer, COM Instructor; Katrina A., Davon W., and Brittani T.

January 13, 2010 - Classroom on the Mall Students participated in the 2010 DECA District Leadership Conference at Ocean Lakes High School. The students had a very successful evening as they won second place overall in two categories and several event categories in their area. Advancing to the State Leadership Conference will be Davon W., Samantha H., Katrina A., and Brittani T.

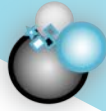
VOLUNTEER OF THE YEAR



ATC Engineering Technology Rocketry Club: Roshni B., Katelyn F., Blair C., and Skip Cutting, ATC Volunteer of the Year. Andrew C. not pictured is also a member of the club.

The ATC is excited to recognize Mr. Warren (Skip) Cutting as the Volunteer of the Year for our school. Mr. Cutting is the mentor for the ATC Engineering Technology Rocketry Club. He not only guides students on the building of the rocket, but also the launch of the rockets designed for the Team America Rocketry Challenge (TARC). Our rocketry guru brings with him six years of experience, background, and connections in model rocketry which makes him invaluable to our students.

ATTENTION RISING 9TH GRADE STUDENTS AND THEIR PARENTS



Interested in your teenager attending a summer camp dedicated to fun with technology, people skills, and opportunities to experience hands-on activities? Then read on... the ATC Summer Camp for Rising 9th Grade Students will include activities in:

- Computer Repair
- Telecommunications/Cisco Networking
- 3-D Modeling
- Digital Design
- Computer Aided Drafting and Design (CADD)
- Marine Engineering and Design
- Robotics and Engineering
- Marketing Management
- Teambuilding
- Web Page Design

The Advanced Technology Center will sponsor its annual Summer Camp August 16 – 20, 2010. Registration forms have been distributed to 8th grade students in their middle schools this spring through the guidance office. Tuition is \$125.00 Completed registration forms with payment will be accepted on a first-come, first served basis. Parents are responsible for providing a bag lunch as well as transportation. These are just a few of the comments made by parents:

- It gave my daughter the opportunity to explore different options to look into for her future.
- He talked highly about his Classroom on the Mall experience and also a session where he got to build a boat.
- The fact that my son came home each day so excited about what he had learned. It was very organized and allowed my son to see exactly which areas of technology he is most interested in.
- My eldest son (ATC alumni) received more than \$22,000 in scholarship money from Northern Arizona University. We feel that his ATC experience contributed to the scholarship as well as his preparedness for success in college. - Carroll Dohrn

Michael D. Taylor, Director
Ann Marie C. Garvey, Editor and
Assistant Director of Student Programs and Business Development
Produced by The Advanced Technology Center and
Robert John G., Digital Design Student and Graphic Designer