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Ece 191 ucsd

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Leading one of the teams were Calit2 employee researchers Javier Rodriguez Molina, Don Kimball and Jeff Cuenco, all members of the Calit2 Circuits Lab at UCSD. They helped a group of students – JaeYong Kim, Marvin Tu, and Phillip Thai – successfully implement a self-navigation component that incorporated a global positioning system and digital compass into the existing Gizmo device. Gizmo is a technologically sophisticated mobile communication device designed for use in disaster sites or other emergency situations. It resembles a remote-controlled truck and collects and transmits in real time all the information that emergency personnel need through any communication system they use. The team of students also developed an algorithm for a device that used infrared sensors to avoid objects. The signals turn the Gizmo truck in the right direction to avoid any obstacle. Counsel jeff cuenco, who interviewed the team at the beginning of the quarter, said he was impressed by how much the team of students knew going into the project. After that, the electrical technicians, they were actually pretty well-adept at different types of programming, he said. Not only built-in Linux, but real micro-controller-based embedded encoding as well as FPGA [field programmable gateway array] experience. So it was actually quite nice. Nandan Das (center), a calit2-affiliated researcher, works with students at ECE 191 on FPGA implementation of digital communication systems. FPGAs are semiconductor devices that contain programmable logical components called logical blocks, as well as programmable links. Their advantages include shorter time to market, the ability to reprogram in the field to correct errors, and lower one-time engineering costs. FPGA applications include digital signal processing, software-defined radio, aerospace and defense systems, and a growing range of other areas. In addition to the Gizmo calit2 project, he also sponsored two research teams dealing with the implementation of FPGA digital communication systems. One group - made up of students Alvin Sheih, Chang Ho Han and Bunreth Nhung - focused on the FPGA transmitter and recovery timing loop. Another team of students - Mujib Haider, Lynn Greiner Ryan Honor and Nimit Pandya - tried to simulate and analyze fpga frequency recovery. Both groups were recommended by Calit2-affiliated researcher and ViaSat system engineer Nandan Das. Student Bunreth Nhung said Das was probably the best teacher we had at UCSD. He showed up at odd hours to help us, he added. He really cared. Who shows up Friday afternoon to help the students? Nhung said he also greatly appreciates the course itself. We learn these concepts theoretically, but this class puts them into perspective, he said. It's practical. What we're learning remains in our heads. The highest honors went to the ECE 191 team, which developed and deployed a mobile transmission system for chase vehicles. The group that won the best project honor developed a mobile broadcast system for chase vehicles that accompany cyclists in a race across America (RAAM), a continuous five-day bike race from Oceanside, California, to Annapolis, Md. Satellite and digital communications maker ViaSat, which sponsors the RAAM team, longed for an interface that chase vehicle drivers could use to communicate with each other as well as with cyclists and the general public. Chuck Pateros and Matt Butler of ViaSat worked with three Jacobs School of Engineering students - Tim Fair, Michael Inaba and Brian Stieber - to create a system that included a 4-channel mixer, USB, GPS interface, robust public sound system and navigation system. The award was awarded to ECE Professor Pankaj Das. He said he and fellow ECE Professor Clark Guest - who co-teaches ECE 191 - were impressed that the project was at the time being used in a chase vehicle occupied by Pateros, who was in New Mexico at the time of the group's presentation along with a team of cyclists. It's the first time the project has gone from concept to real-world application in one quarter, Das said. The team received a \$100 gift certificate at UCSD Bookstore for their efforts. Calit2 researcher Javier Rodriguez Molina (center, in a hat) advises students on their Engineering Group Design Project. Said team member Tim Fair: I didn't expect to win. I thought other projects were a lot more complicated than ours. But we designed something that works in the real world. Fair's colleague Brian Steiber pointed out that the device has other applications beyond competitive cycling, including the use of public safety officials as a more robust PA system. Also, the completion of the course project was which designed and tested two antennas with high gain, high frequency and low noise, left circular polarizing patch antennas for satellite phones. Mentor Max Sun of Hughes Network Systems advised students Tzu-Yu (Joey) Pao, Stanley Nguyen and Stan Hong on the project. A team made up of Homan students Chris Karimi, Mike Mesri and Scott Sakurai examined an effective and effective method for recreating network keys by examining three different multicast protocols for IPsec applications. The total team was advised by Tiffany To of Booz Allen Hamilton (a strategy and technology consulting firm) and Richard Phipps of the Spawar System Center, which develops communication technologies for the U.S. military. Media ContactsTiffany Fox, (858) 246-0353, tfox@ucsd.eduRelated LinksECE 191 Race Across America Calit2 Circuits Lab 2020-21 NEW COURSES, check them out below. Sources: ECE Official course descriptions (UCSD catalogue) ECE postgraduate students only: ECE Pre-Authorization Request (Clear Me) Form For the academic year 2019-2020: Courses, 2019-20 For the academic year 2018-2019: Courses, 2018-19 For the academic year 2017-2018: Courses, 2017-18 For the academic year 2016-2017: Courses, 2016-17 ACADEMIC YEAR: 2020-2021 Class lists and faculties are designed and may change. Click on the instructor name for the class website. Please note if you see the professor's name in the field below, it means that the course is offered quarter listed. If there is an empty field, then the rate is not offered that quarter. 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