

Teams In Engineering Service:

Creating Solutions for the Technical Needs of Community Partners

Lakeside's River Park Conservancy



Informational Kiosk

An innovative, "green", solar-powered informational kiosk is being built to communicate the Lakeside Conservancy's progress in making an environmentally friendly river park. By using touch-screen technology, people of all ages can easily access information in the kiosk.

Environmental Monitoring

A self-sustained, solar-powered, low-cost water quality sensor system is necessary for the Lakeside Conservancy to remotely monitor the productive changes occurring along their reconstructed piece of the San Diego River.



Bridge Design

Initial engineering, constraints analysis, and design concepts have been produced for pedestrian, equestrian and hiking bridges and observation decks, which will bisect the planned river park trails.

St. Paul's Senior Homes and Services



Digital Nursing : New Generation Healthcare

A client/server model was used to successfully develop, produce & deploy a digital 24-Hour log system that is clearer, more succinct, and easier to reference than the current paper based version.

Smart Assisted Living Technologies

A wearable prototype with an accelerometer and transmitter was designed and developed in order to improve the quality of living of the residents at St. Paul's.



United Cerebral Palsy of San Diego County



Universal Toy Adaptor, Assistive Tricycle, and Web Forum

Common, popular children's toys are being modified for children with special needs for ease of operation and safety. An interactive web forum is being developed for families with children with disabilities.

Save Our Children's Sight



Pediatric Digital Vision Screening

The hardware and software specifications of a digital vision screening system, identifying children with potential eye problems are being updated to provide more comprehensive vision care for low-income preschoolers.

K-12 San Diego Teachers and Students



Engineering Education Outreach

The mission of this dynamic group of engineers and educators is to enrich the learning experience of students through interactive science curriculum and hands-on engineering in various grade levels.