

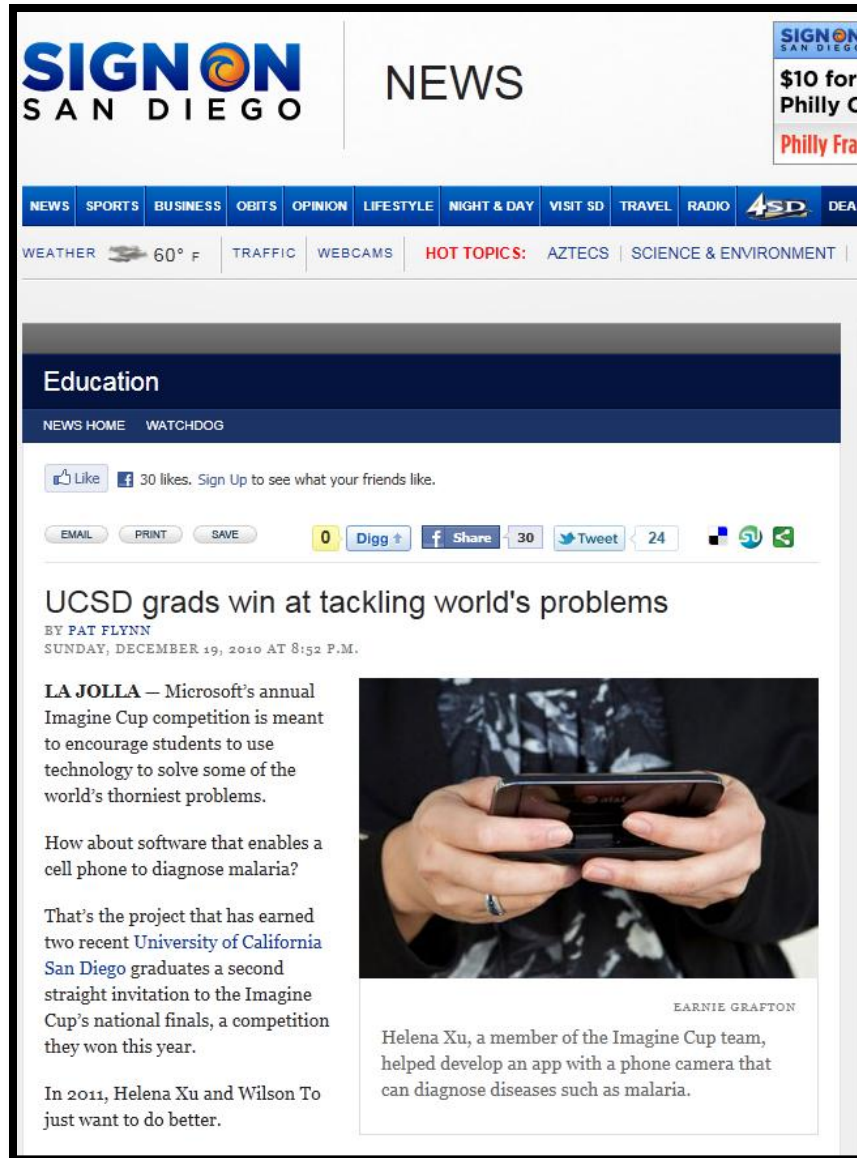
Imagine Cup

Contact: Sam Stokes Email: sstokes@microsoft.com phone: 949 6375736

- Create a software product that can solve a large world problem and get help forming your own company!
- To find out more about the Software Design category:
 - <http://bit.ly/ucsbimaginecup>
 - (url is case sensitive)
- Critical dates:
 - Team Formation
 - Simple Project Template completed and turned in by Feb. 15, 2011 (USC, UCR, UCSD, UCI teams have already done this), about 30 minutes
 - Working Prototype (“Alpha level”) Software, Completed Project Template, 3 to 5 minute video turned in by March 14, 2010

UCSD grads win at tackling world's problems

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About the
LifeLens Team from
UCSD




The image is a screenshot of a news article from the SignOn San Diego website. The page features a blue header with the 'SIGNON SAN DIEGO' logo and the word 'NEWS'. Below the header is a navigation bar with various categories like NEWS, SPORTS, BUSINESS, etc. The article is titled 'UCSD grads win at tackling world's problems' and is dated Sunday, December 19, 2010. The text describes how two UCSD graduates won the Imagine Cup competition for developing an app that can diagnose diseases like malaria using a phone camera. An image shows a person holding a smartphone. The article is credited to Earnie Grafton.

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UCSD grads win at tackling world's problems
BY PAT FLYNN
SUNDAY, DECEMBER 19, 2010 AT 8:52 P.M.

LA JOLLA — Microsoft's annual Imagine Cup competition is meant to encourage students to use technology to solve some of the world's thorniest problems.

How about software that enables a cell phone to diagnose malaria?

That's the project that has earned two recent University of California San Diego graduates a second straight invitation to the Imagine Cup's national finals, a competition they won this year.

In 2011, Helena Xu and Wilson To just want to do better.



EARNIE GRAFTON

Helena Xu, a member of the Imagine Cup team, helped develop an app with a phone camera that can diagnose diseases such as malaria.

Super Successful Student Server, S⁴

As a participant in the Imagine Cup you will receive access to:

- A virtual server accessed via terminal services
- Upload and save student code/work
- Connects to internet
- Applications include:
 - SQL Server 2008
 - VS 2010 Architect
 - Team Foundation Server
 - Office 2010 (All)
 - Web Matrix
 - Expression 4
 - Sharepoint Foundation



All of the Microsoft products you need are up and running!

Software Versioning and control using Team Foundation Server

You Keep Your Intellectual Property

Limitations

- Availability:
 - Limited number
- **Does not run**: XNA or Phone Emulator

Station Q: Leading edge of Computer Science

- The StationQ effort would be:
 - Innovate a Windows Presentation Framework project that would perform
 - Monte Carlo simulation of physic processes, processes to be defined by StationQ researchers
 - Monte Carlo simulation would utilize the ALPS (Algorithm and Libraries for Physics Simulation) currently running on the UCSB Beowolf cluster
 - Work with UCSB Videographers to tell the world about your work
 - Perform an analysis of moving the calculation process to Azure Cloud
 - Students keep all intellectual properties per Imagine Cup Rules

Digital Spectrometer using Windows Phone: Use it to perform community based science

- Innovate a Windows Phone application that would:
 - Implement a simple system of digital spectrometry that would utilize inexpensive red laser diodes to determine CO₂ content in the atmosphere
 - (recommend that this be done using a Windows Phone, like the UCSD students did with LifeLens)
 - Implement a web based system to collect the data (or utilize an existing system with modifications)
 - Implement a web based system for provenance of research (or utilize an existing system)
- Students keep all Intellectual Property under the rules of the Imagine Cup.