

YAW Y . ANOKWA

Computer Science and Engineering
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INTERESTS

I am interested in building, deploying and evaluating low cost technologies which positively impact the developing world and the ubiquitous computing and human-computer interaction issues in that space.

EDUCATION

University of Washington

Doctor of Philosophy in Computer Science
Focus: Developing World Technologies
Advisors: Gaetano Borriello, Tapan Parikh

Seattle, WA
June 2007 – Present

University of Washington

Master of Science in Computer Science
Focus: Ubiquitous Computing, Human-Computer Interaction
Advisor: Gaetano Borriello

Seattle, WA
September 2005 – June 2007

Butler University

Bachelor of Science in Computer Science
Minors: Mathematics, Business Administration

Indianapolis, IN
August 1999 – May 2004

Indiana University-Purdue University Indianapolis

Bachelor of Science in Electrical Engineering

Indianapolis, IN
August 1999 – May 2004

PUBLICATIONS

Yaw Anokwa, Christian Allen, Tapan Parikh, “*Deploying a Medical Record System in Rural Rwanda*”. HCI for Community and International Development (HCIDCID) at CHI 2008.

Brian DeRenzi, Yaw Anokwa, Tapan Parikh, Gaetano Borriello, “*Reliable Data Collection in Highly Disconnected Environments Using Mobile Phones*”. Networked Systems for Developing Regions (NSDR) at SIGCOMM 2007.

Yaw Anokwa, “*Beyond Device Pairing: New Interactions on NFC Enabled Mobile Phones*”. Master’s Thesis.

Society and Technology Group, “*The ORCA Card: Seattle’s Public Transit Pass*”.
<http://soctech.cs.washington.edu/wiki/ORCA/>.

Tarek Abdelzaher, Yaw Anokwa, Peter Boda, Jeff Burke, Deborah Estrin, Leonidas Guibas, Aman Kansal, Sam Madden, Jim Reich, “*Mobiscopes for Human Spaces*”. IEEE Pervasive Magazine, April 2007.

Adrienne Andrew, Yaw Anokwa, Karl Koscher, Jonathan Lester, Gaetano Borriello, “*Context to Make You More Aware*”. Smart Appliances and Wearable Computing (IWSAWC) at ICDCS 2007.

Trevor Pering, Pei Zhang, Rohit Chaudhri, Yaw Anokwa, Roy Want, “*The PSI Board: Realizing a Phone-Centric Body Sensor Network*”. Body Sensor Networks (BSN) 2007.

Yaw Anokwa, Gaetano Borriello, Trevor Pering, Roy Want, “*A User Interaction Model for NFC Enabled Applications*”. Pervasive RFID/NFC Technology and Applications (PERTEC) at PERCOM 2007.

Trevor Pering, Yaw Anokwa, Roy Want, “*Gesture Connect: Facilitating Tangible Interaction With a Flick Of The Wrist*”. Tangible and Embedded Interaction (TEI) 2007.

HONORS

- National Science Foundation Graduate Research Fellowship (2006)
- Ford Motor Company Fellowship (2006)
- Top 1 Outstanding Male Student Award, Butler University (2004)
- Top 10 Outstanding Male Students Award, Butler University (2003-2004)
- Top 100 Outstanding Students Award, Butler University (2002-2004)
- Outstanding Engineering Student Award, Butler University (2000-2004)
- National Intern of the Year, Cooperative Education and Internship Association (2004)
- Outstanding Engineering Dual Degree Program Student Award, Purdue School of Engineering (2003)
- Online Journalist of the Year Award, Butler University (2001)

EXPERIENCE

University of Washington

Seattle, WA

Computer Science Department, Research Assistant

September 2005 – Present

Researching ways of providing contextual information from sensor enabled systems (Intel iMote2, UW Multi-Sensor Board) to personal devices (Microsoft SPOT watch, Windows Mobile 5 phones, Nokia S60v3 phones) via Bluetooth. Also worked on novel ways of using near field communication (NFC). Currently exploring policy and privacy issues in deploying RFID systems and finding low cost applications of technology in healthcare and agriculture in Africa.

Computer Science Department, Teaching Assistant

September 2005 – December 2005

Responsible for teaching two sections (40 students) in an 'Introduction to Programming' course. Duties included section lectures, grading, office hours and tutoring students when necessary.

Partners in Health

Rwinkwavu, Rwanda

Volunteer Software Developer

June 2007 – December 2007

Deployed OpenMRS – an open-source, enterprise electronic medical record system framework for resource constrained healthcare environments. Responsible for implementing new features and bug fixes, managing data entry team, and upgrading computer infrastructure.

Intel Research

Santa Clara, CA

Ubiquity Lab, Research Scientist

June 2006 – September 2006

Helped write Linux driver to communicate with custom NFC hardware and Motorola Linux phones. Designed user interaction model for NFC-enabled applications on mobile devices. Built a Bluetooth based file sharing application to test model on phone to PC and phone to phone interactions.

Anokwa Consulting

Indianapolis, IN

Owner

January 2000 – September 2005

Founded and managed computer-consulting firm primarily servicing the Apple Macintosh platform. Provided repair, web development, forensics, group instruction, networking and media services for clients ranging from local musicians to large multi-national corporations.

Raytheon Technical Services Company

Indianapolis, IN

Engineering and Production Support, Multi-Disciplined Engineer II

June 2004 – October 2004

As engineering lead, managed project scope, budget and schedule for team designing improved digital magnetic anomaly detection device for anti-submarine patrol aircraft. As technical engineer, provided engineering analysis and support for avionics in Air Combat Electronics program and released build-to-print production of spares.

Engineering and Production Support, Electrical Engineer I

May 2003 – August 2003

Designed, built and installed components to increase accuracy of F/A-18 radar test equipment. Built handheld barcode scanning system to track and update wire data in Air National Guard aircraft.

Engineering and Production Support, Software Engineer I

May 2002 – August 2002

Developed application that increased throughput for site-wide document printing by 700%. Discovered method to cut aperture card digitization costs by 73% while increasing print quality. Designed and implemented web application to evaluating employee training effectiveness.

Butler University

Indianapolis, IN

Dawgnet, Webmaster

July 2000 – May 2004

Designed, implemented, and maintained Dawgnet, an online news website. Led team of four in implementing database-driven application with features including dynamic layout and web GUI that cut site creation time by 400%. Created and managed campaign that recruited over 25 writers, editors and developers. Site was named as a finalist in National Associated Collegiate Press' Online Pacemaker competition.

Engineering Projects in Community Service (EPICS), Project Leader

August 2001 – August 2002

Led first EPICS team at Butler in design and implementation of online quizzing and gaming environment for local school. Also led team of four in design of web-based conference management system for Butler University.

ACTIVITIES

- Faculty Recruiting Liaison, CSE Department at University of Washington (2007)
- Prospective Student Committee, CSE Department at University of Washington (2006,2007)
- Society and Technology Seminar Co-Organizer, CSE Department at University of Washington (2006,2007)
- Holiday Party Organizer and Holiday Skit Directory, CSE Department at University of Washington (2006)
- Student Volunteer for UbiComp conference (2006) and UIST conference (2006)
- Editorial Columnist for The Indianapolis Star newspaper (2005)

REFERENCES

Dr. Gaetano Borriello

Computer Science and Engineering
University of Washington
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Dr. Roy Want

Ubiquity Lab
Intel Research, Santa Clara
roy.want@intel.com

Dr. H. Oner Yurtseven

Electrical and Computer Engineering
Indiana University-Purdue University Indianapolis
ho yurt7@iupui.edu

Dr. Tapan Parikh

School of Information
University of California, Berkeley
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Dr. Peter Henderson

Computer Science and Software Engineering
Butler University
phenders@butler.edu

Dr. Jon Sorenson

Computer Science and Software Engineering
Butler University
sorenson@butler.edu