

Timothy J. Andrianoff

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U.S. Citizen

purpose

Improve the world by making beautiful things based in observation and understanding.

education

Master in Human-Computer Interaction, December 2011, QPA 4.02/4.33

Carnegie Mellon University | University of Madeira
Pittsburgh, PA, USA | Funchal, Portugal

B.S. in Computer Science, December 2008, QPA 3.75/4.00

Additional Major in Japanese
Carnegie Mellon University | Meikai Daigaku
Pittsburgh, PA, USA | Tokyo, Japan

project

MHCI Capstone Project / Social Media for Businesses

January 2011 - December 2011

Novabase / Collab, Lisbon, Portugal | University of Madeira, Funchal, Portugal

- Conducted research, interface design, and functional prototyping of an application to allow companies to create a social media presence and better connect with customers.
- Acted as Web and Documentation lead for a team of six, overseeing documentation of research and design process and production of final client reports.

UX/UI Design for Mine Rescue Robot

August 2010 - December 2010

Subteranean Robotics Group | Carnegie Mellon University, Pittsburgh, PA

- Designed interface for control of a robot used for mine rescue.
- Conducted user research via contextual inquiry and performed thinkaloud validation of interface concepts.

work

Research Programmer

January 2009 - August 2010

RERC for Accessible Public Transportation | Carnegie Mellon University, Pittsburgh, PA

- Implemented Java and PostgreSQL backend for Field Test of Tiramisu Bus schedule and location app
- Conducted and analyzed thinkaloud tests of a problem reporting form paper prototype
- Developed application data schema based on Google Transit Feed System

Teaching Assistant

August 2008 - December 2008

Java J2EE Programming Course, Carnegie Mellon University, Pittsburgh, PA

- Assisted students' learning of Java programming for UI, File I/O, and Web Applications
- Conducted office hours and recitation help sessions
- Graded programming projects and exams

Research Programmer

May 2008 - August 2008

CORAL Research Group | Carnegie Mellon University, Pittsburgh, PA

- Implemented a system for iRobot Create robots and Firefly sensor nodes, coordinated by C#, Microsoft Robotics Studio VPL and Lisp code bases running in Windows, Virtualized Linux, and Nano-RK OS.
- Managed communication with robot via UDP socket communication over serial port

Participant Observer

August 2007 - December 2007

Gallery of Fantastic Art | Tokyo, Japan

- Translated web pages and promotional materials from Japanese into English.
- Performed anthropological investigation of work practices in a gallery for animation and pop culture artwork.

coding

Java
Javascript/CSS/HTML
PHP
C/C++/C#
Android Platform
SML/NJ
Python
Prolog
PostgreSQL
x86 assembly

process

Contextual Inquiry
Cultural Probes
Affinity Diagramming
Personas
Key-stroke Level
Modeling Think-Alouds
Heuristic Evaluation
Wireframing
Prototyping

COURSES

Operating Systems
Distributed Systems
Web Applications
Graph Theory
Computer Graphics
Software Engineering for
Information Systems
HCI Methods
Game Design
Mapping Urbanism
Making Things
Interactive
Applied Machine
Learning
Improvisational Acting

software

Adobe InDesign
Adobe Illustrator
CogTool
Eclipse IDE
Subversion
Microsoft Office Suite
Adobe Dreamweaver
Emacs

language

Japanese - Conversational
Chinese - Basic
Portuguese - Basic