

Aditya Gaddam

adityagaddam@gmail.com - 240.246.5204

18205 Lost Knife Cir. Apt 304
Montgomery Village, MD 20886
<http://www.pixelfaction.com>

Education

Bachelors of Science in Computer Engineering at University of Maryland, College Park

- Graduated December 2008
- **Honors - Gemstone Program:**
Four-year research project investigating effect of various physical aspects of sound on human emotion.
<http://psycho.pixelfaction.com>
- **Coursework:**
ENEE408I – Autonomous Robots (C#)
CMSC498M – Game Programming (C++, Ogre3D)
CMSC427 – Computer Graphics (C++, OpenGL)
CMSC412 – Operating Systems (C)

Skills

- Proficient at using standards compliant CSS and HTML/XHTML.
- Proficient at writing cross-browser Javascript including code for the AJAX model.
- Proficient at using PHP, including interfacing with MySQL, Flash and XML.
- Skilled with Adobe Flash including AS 3.0.
- Skilled at programming in C#, JAVA, C, C++.
- Skilled at using Photoshop for graphic design, including logos, abstract art and layout/UI concepts.
- Comfortable with using Ruby, Python, Perl, Ocaml etc. with API reference.
- Comfortable in Windows, flavors of Linux (Ubuntu, Debian, Slackware) and OSX.
- Experienced at swinging a hammer and wiring a house ... or a small car.

Experience

Web Development and Consulting for Student Online Learning at Montgomery County Public Schools

May 2006 – Present | <http://www.montgomeryschoolsmd.org/departments/onlinelearning>

- Created a series of reusable, interactive learning objects using Adobe Flash and C#.
- XML files are used for customizing content and layout of final product.
- Developed reusable templates that allow teachers to create interactive learning content that can be customized for any subject area.

Red Wiggler Community Farm Website Complete Redesign and Reorganization

June 2008 – August 2008 | <http://www.redwiggler.org>

- Redesigned website to be more visually appealing, accessible and standards based.
- XHTML 1.1 and CSS 2.0 Valid.
- Custom control panel for the owner of the farm to update content on the website easily.

Summer Intern in Software Development Group at Affiliated Computer Services (ACS)

May 2008 – August 2008 | <http://www.acs-inc.com>

- Evaluated several JAVA-based web-frameworks including SEAM, Appfuse and Grails for use in the development of an internal organization and tracking tool.
- Implementation required use of both high level Grails features and lower level Java code and Hibernate queries.
- Designed an internal organization and code tracking tool in Grails (a JAVA based web-framework) using HTML/CSS and elements of AJAX for the front-end.
- Collaborated with other developers in the Software Development Group to design the back-end database structure in MySQL.

Experience (continued)

Wiring Harness and Controls design and implementation for 1st place winning 2008 UMD Formula SAE car

December 2007 – July 2008 | <http://www.terpsracing.umd.edu>

- Part of the team that designed and implemented a modular wiring harness for the car.
- The team experienced no major electrical problems throughout the entire event.
- Created the PCB design for on-car controls.
- Designed team website currently being used along with a custom control panel to edit content such as news and photos – XHTML and CSS compliant.
- Designed and implemented control systems including the Tachometer and Traction Control.
- Control systems and the Engine Control Unit were packaged along with other parts such as fuses and relays in a custom built enclosure that was safe from the elements and allowed easy access and maintenance in the form of quick disconnects.

Controls and Software Engineering for the 2nd place winning Solar Decathlon 2007 project (LEAFHouse)

August 2006 – October 2007 | <http://www.solarteam.org>

- Engineering Team Leader – Led design of the Smart House system and collaborated with architecture and engineering students to integrate control systems into the house.
- Designed and implemented a dedicated hardware controller designed from scratch using a flexible multi-processor design in collaboration with one other student.
- Created the PCB design for central controls board.
- Developed several areas of the team website including the interactive sponsor map – Cross browser JS/AJAX with compliant HTML and CSS.
- The device was made to be completely controlled using a simple, standard messaging protocol over the serial port.
- Collaborated with architects, mechanical and civil engineers and faculty to make sure the controls project positively reinforced the aesthetic and functional goal of LEAFHouse.
- Dedicated hardware was complemented with a C# based windows application on the companion PC in the home. Spawned the Überterm Serial Terminal Program – A free C# based serial terminal. Find out more at <http://uberterm.pixelfaction.com>

References

References available upon request.