Brian C. Becker

5551 Centre Ave (321) 262-7715 Apt. 706 www.BrianCBecker.com Pittsburgh, PA, 15232 Brian@BrianCBecker.com

Objective

A position in computer engineering or robotics, providing software development skills in a challenging environment.

Skills

Languages:		Ex	Expertise		Environments		Web Publishing	
>	C/C++	>	Robotics	Þ	Visual Studio	>	HTML	
>	Java	>	Intelligent Systems	>	Doxygen	Þ	CSS	
Þ	C#	>	Machine Vision	Þ	Windows API	Þ	PHP	
>	x86 Assembly		Compiler Design	>	wxWidgets GUI	>	MvSOL	

Education

2007 – Present	Robotics	Doctor of Philosophy Carnegie Mellon University	
2003 – 2007	Computer Engineering Summa Cum Laude	Bachelors of Science University of Central Florida	3.983 GPA
1999 – 2003	Business Administration	Associate of Arts	4.000 GPA
	Summa Cum Laude	Indian River Community College	

Experience

Jun 04 – Jul 07	Developed PHP-based intellig	Intelligent Systems Lab ed web-based artificial intell gent wizard guide and added ckend of a knowledge based s	ontology-based
Sept 03 – Jun 07	Designed and developed mapath planning approaches	Robotics Lab at UCF chine vision algorithms, GUI in C++ for autonomous g scripting engine for prototype	round vehicles.
Summer 05 & 06	5	Pierre & Marie Curie Univ. in Paris on Contextual Graph nd MySQL/XML conversion n	ns, an AI model.
Jun 03 – Aug 03	Programmer Intern Augmented webmail recording	SpectorSoft ng features for "net nanny" so	Vero Beach, FL ftware.

Honors

2004 – Present	Tau Beta Pi	National Engineering Honors Society
2003 - 2007	Scholarships	ARCS, Astronaut, UCF High Achievement
2005 - 2007	Founder's Scholar	GPA ranked in the top 1% of college
2004 - 2006	President's Honor Roll	Five semesters of 4.0 GPA with full load

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Publications

- Becker, B.C., Gonzalez, A.J., Garfield, K. "A Mission Plan Representation for Autonomous Reasoning of Consequences." In the *Proceedings of the 16th Behavior Representation in Modeling and Simulation (BRIMS) Conference*. Norfolk, VA, April 2007.
- Becker, B.C., Porter. R.M., Barber, D.J. "**Gamblore**." In the *Proceedings of The 15th Annual Intelligent Ground Vehicle Competition*. AUVSI, http://www.igvc.org, June 2007.
- Barber, D.J., Becker, B.C. "**Discover Vision**: A Framework for Building, Evaluating, and Testing Performance Based Machine Vision Applications." In the *Proceedings of Unmanned Systems North America 2006*. AUVSI, Orlando, FL, August 2006.
- Barber, D.J., Becker, B.C., Ortiz, E.G., Porter. R. "Calculon." In the *Proceedings of The 14th Annual Intelligent Ground Vehicle Competition*. AUVSI, http://www.igvc.org, June 2006.
- Becker, B.C., Vargas, C.M., Gonzalez, A.J. "Ontology-Based Search Engine for a Real-World Decision Support System." In Proceedings of the 20th National Conference for Undergraduate Research (NCUR) Conference. Asheville, NC, April 2006.
- Nguyen, J.V., Becker, B.C., Gonzalez, A.J. "**Contextual Graphs** for a Real-World Decision Support System." In *Proceedings of the 19th International FLorida Artificial Intelligence Research Society (FLAIRS) Conference (FLAIRS-06)*. Melbourne, FL, May 2006.
- Barber, D.J., Gonzalez, F.G., Roberts, T., Becker, B.C. "**Software Design** for an Autonomous Ground Vehicle for the 13th Annual Intelligent Ground Vehicle Competition." In *Proceedings of Intelligent Robots and Computer Vision XXIII: Algorithms, Techniques, and Active Vision.* SPIE, October 2005.
- Barber, D.J., Kiriwas, A., Gonzalez, F.G., Roberts, T., Becker, B.C. "**Calculon**." In the *Proceedings of The 13th Annual Intelligent Ground Vehicle Competition*. AUVSI, http://www.igvc.org, June 2005.
- Barber, D.J., Gonzalez, F.G., Roberts, T., Becker, B.C. Andres, R. "Black Knight." In the *Proceedings of The 12th Annual Intelligent Ground Vehicle Competition*. AUVSI, http://www.igvc.org, June 2004.

Presentations Apr 2007 Showcase for Undergraduate Research

Orlando, FL

Presented undergraduate thesis entitled "Automatically Determining

Consequences of Unexpected Events" in poster format.

May 2006 Showcase for Undergraduate Research Orlando, FL

Won $2^{\rm nd}$ place in the engineering category with a poster presenting a search engine combined with an ontology for a decision support system.

Apr 2006 National Conference for Undergrad. Research Asheville, NC

Presented the benefits of coupling a domain-dependent ontology with a

keyword search engine, including more relevant search results.

Apr 2005 Showcase for Undergraduate Research Orlando, FL

Presented the research and artificial intelligence algorithms that enabled the I/UCRC Wizard to give intelligent answers and guidance.

Jan 2005 NSF I/UCRC 2005 Annual Meeting Arlington, VA

Presented the I/UCRC Wizard, an online, intelligent guide for potential

universities interested in forming an NSF research center.