Matthew J. Croop

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Permanent address 5914 Stafford Way Indianapolis, IN 46228 Current Address 3913 Baltimore Avenue Philadelphia, PA 19104

	EDUCATION	
	ngineering, Computer Science phics, GPU Programming and Arc pnal Linguistics, Computer Organ ineering, Computer and Informat 2012	Cumulative GPA: 3.95 In-major GPA: 4.00 (13 courses) hitecture, Functional Programming ization and Design, Complex Analysis
International Baccalaureate Diplom	a National AP Scholar USA M	lathematical Olympiad qualifier
	— Work Experience —	
	cheed Martin naval ergonomics/h	numan factors system. Ided head/eye tracking of targets,
University of Pennsylvania , Philac Assisted Professor Mitch Marcus for lab session, held office hours, wr	r CIS 120 (Programming Languag	ges and Techniques I). Led a presentations, and graded exams.
Courses ADI Co designed an ADI f		
courses API – co-designed an API I	of accessing database of Pennico	urse registrar information. Fall 2010
Beats - Programmed animation and	d GUI in rhythm game for Androi	d phones. Fall 2010
Functional Programming in Scala Developed remote procedure ca networked system capable of de	ll interface for a Scala implement	
GPU Programming and Architectu Implemented Principal Compone	ure (Course project) – ent Analysis-based transform for	Spring 2010 GPU image compression.
Snakeathon – Co-developed compe		For the arcade game Snake. Fall 2009
	LANGUAGES	
Experienced Java, Python, C++	<i>Familiar</i> Scala, C, CUDA	Prior Experience Assembly (z80), PHP, Matlab
java, i ytiloii, G++		Assembly (200), 1 III, Madab
	ACTIVITIES —	
	Technology Chair, Faculty Repres	
Science and Technology Wing Penn Undergraduate Math Societ	Member y Member	Fall 2008 - present Spring 2009 - present
Penn Wind Ensemble	Member Member	3pring 2009 - present Fall 2008 - Spring 2009