

Timothy A. MacPherson

tmacpher@umich.edu

1208 Prospect Ave
Ann Arbor, MI 48104
(248)-622-7345

OBJECTIVE	Obtaining a full time offer starting in the summer of 2017. Specifically interested in operating systems, computer architecture, and system software.	
EDUCATION	University of Michigan – Ann Arbor Major: <i>Computer Engineering</i>	May 2017 GPA: 3.97/4.00
WORK EXPERIENCE	Amazon Software Development Engineering Intern <i>AWS, S3 Request Persistence</i> <ul style="list-style-type: none">Designed and implemented metric collector running on all storage hosts, which, when queried, would respond with vital health and performance metrics for a particular hostThe resulting data allowed the storage team to better decide which hosts to place objects on	May 2016 – Aug 2016
	EECS 370 Instructional Aide <i>Computer Organization</i> <ul style="list-style-type: none">Led Discussion section, held office hours, developed project specifications, tests, and homework	Jan 2016 - Present
	General Motors <i>Powertrain Engineering Intern</i> <ul style="list-style-type: none">Worked on Multidisciplinary Design team to design and execute an experiment to optimize the efficiency of various transmissions with respect to temperatureProvided MATLAB expertise to the team, and designed tools, including user interfaces, to efficiently process, in MATLAB, the large amount of data received from tests	May 2015 – Aug 2015
	MathWorks, Inc. <i>Consulting Intern</i> <ul style="list-style-type: none">Created a working prototype by the end of the summerGained an in depth understanding of Automotive SPICE and knowledge of best practices when implementing Model Based Design	May 2014 – Dec 2014
COURSE WORK	<i>Design of Microprocessors</i> – Designed embedded systems application in semester long project involving extensive lab work using ARM and C to program an embedded target	Jan 2016 – April 2016
	<i>Web Databases and Information Systems</i> – Designed and implemented website using MySQL, Python, and JavaScript	Jan 2016 - April 2016
	<i>Computer Organization</i> – Simulated a simple processor in C, covered pipelining, caching, and virtual memory	Sept 2015 – Dec 2015
	<i>Algorithms and Data Structures</i> – Used C++ to implement efficient algorithms, while choosing the most optimal data structure for the application.	Sept 2015 – Dec 2015
EXTRA-CURRICULARS	Eta Kappa Nu (HKN) EECS Honor Society Vice President Michigan Rollerblading (M-Blade) Co-founder and Secretary	May 2016 – Present Jan 2015 – Present
AWARDS	James B. Angell Scholar William C. Ford, Jr. Scholarship Recipient William J. Branstrom Freshman Prize	