Ryan R. GYSIN

1405 Michigan Ave, Bay City, MI, 48708
rgysin@umich.edu
989 450 1867

EDUCATION

APR 2017	Undergraduate Degree in COMPUTER ENGINEERING
	University of Michigan (U of M), Ann Arbor
	Relevant Classes: Operating Sytems, Machine Learning, Microprocessor Design, Embedded Control Systems, Computer Security, Logic Design, Computer Organization, Signals and Systems, Data Structures and Algorithms
	GPA: 3.0/4.0

PROJECTS

SEPT 2015 Current	MICHIGAN AUTONOMOUS AERIAL VEHICLE (MAAV)
	President and Navigation Sub Team Lead
	Worked on quad-rotor that placed 2nd in the 2016 International Aerial Robotics Competition
	Developed computer vision code for detecting corners and ground robots based on size and color
	Designed code that trained computer vision software to find which parameter most reduced noise while still finding all ground robots
	Managed code base using git
SEPT 2013 DEC 2014	MECHANICAL SYSTEM DESIGN
	Harnessed Rotational Momentum of bicycle to light a light bulb using chain linkages and magnetic induction
	Prioritized money vs. performance as well as budgeted time

WORK EXPERIENCE

MAY 2016 AUG 2016	NEXTEER AUTOMOTIVE, Saginaw, MI
	Software Engineering Intern
	Designed C# applications to interface with SQL databases
	Worked in Manufacturing IT to trace parts through machine processes
JULY 2014 MAY 2017	U OF M PARKING AND TRANSPORTATION SERVICES, Ann Arbor, MI
	Bus Driver
	Responsible for the transportation and well being of hundreds of students daily
	Learned to manage different personalities through communicating with passengers frustrated about delays
SEPT 2013 AUG 2014	U OF M MECHANICAL ENGINEERING DEPARTMENT, Ann Arbor, MI
	Research Assistant to Prof. Eric Johnson
	Created GUI to model bubble cavitation in a viscoelastic media
	Gained understanding of Matlab scripting and GUI's

SKILLS

Languages:	C++, C, C#, LaTeX, Python, SQL, Verilog, Ruby, Mathematica
Tools:	Git, Matlab, OpenCV