

Ryan R. GYSIN

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EDUCATION

APR 2017	Undergraduate Degree in COMPUTER ENGINEERING <i>University of Michigan (U of M), Ann Arbor</i> Relevant Classes: Operating Systems, 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
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PROJECTS

APR 2017	MGoKART
JAN 2017	Created autonomous gokart as concept for autonomous formula car Developed path planning algorithms and simple kalman filter in Python Designed hardware and communication architectures Wrote communications code in C and Python Wired all components to gokart
APR 2017	MICHIGAN AUTONOMOUS AERIAL VEHICLE (MAAV)
SEPT 2015	President and Navigation Lead 2016-2017 Worked on quad-rotor that placed 2 nd 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 tuned computer vision software to reduce noise Managed entire team code base using git
DEC 2014	MECHANICAL SYSTEM DESIGN
SEPT 2013	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

<i>Current</i>	NEXTEER AUTOMOTIVE, Saginaw, MI
JULY 2017	<i>Manufacturing IT Engineer</i> Interned summer of 2016, went on to take internship as full time job
AUG 2016	Designed C# applications to interface with SQL databases
MAY 2016	Worked in Manufacturing IT to trace parts through machine processes
MAY 2017	U OF M PARKING AND TRANSPORTATION SERVICES, Ann Arbor, MI
JULY 2014	<i>Bus Driver</i> Responsible for the transportation and well being of hundreds of students daily Learned to manage different personalities through communicating with passengers frustrated about delays

AUG 2014	U OF M MECHANICAL ENGINEERING DEPARTMENT, Ann Arbor, MI
SEPT 2013	<i>Research Assistant to Prof. Eric Johnson</i>
	Created GUI to model bubble cavitation in a viscoelastic media
	Gained understanding of Matlab scripting and GUI's

SKILLS

Languages:	C++, C, C#, L ^A T _E X, Python, SQL, Verilog, Ruby, Mathematica
Tools:	Git, Matlab, OpenCV