

# Ryan R. GYSIN

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## EDUCATION

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MAY 2017	Undergraduate Degree in COMPUTER ENGINEERING <i>University of Michigan (U of M), Ann Arbor</i> Relevant Classes: Operating Systems, Machine Learning, Computer Security, Logic Design, Computer Organization, Signals and Systems, Data Structures and Algorithms GPA: 3.0/4.0
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## PROJECTS

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SEPT 2015 <i>Current</i>	MICHIGAN AUTONOMOUS AERIAL VEHICLE (MAAV) <i>President and Navigation Sub Team Lead</i> Worked on quad-copter that placed 2 <sup>nd</sup> in the 2015 International Aerial Robotics Competition (IARC) Developed computer vision code for detecting 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 and budgeted time

## WORK EXPERIENCE

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MAY 2016 <i>Current</i>	NEXTEER AUTOMOTIVE, Saginaw <i>Software Engineering Intern</i> Designed C# application to interface with SQL databases
JULY 2014 <i>Current</i>	U OF M PARKING AND TRANSPORTATION SERVICES, Ann Arbor <i>Bus Driver</i> Responsible for the transportation and well being on 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 <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

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Languages:	C++, C, C#, L <sup>A</sup> T <sub>E</sub> X, Python, Ruby, Verilog, Mathematica
Tools:	Git, Matlab, OpenCV