

# Ryan R. GYSIN

## CONTACT INFO

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## EDUCATION

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MAY 2017 | Undergraduate Degree in COMPUTER ENGINEERING  
*University of Michigan (U of M), Ann Arbor*  
Relevant Classes: Machine Learning, Logic Design, Computer Organization, Signals and Systems, Data Structures and Algorithms  
GPA: 3.1/4.0

## PROJECTS

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SEPT 2015 | MICHIGAN AUTONOMOUS AERIAL VEHICLE (MAAV)  
*Current President and Navigation Sub Team Lead*  
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 | MECHANICAL SYSTEM DESIGN  
DEC 2014 | 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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JULY 2014 | U OF M PARKING AND TRANSPORTATION SERVICES, Ann Arbor  
*Current Bus Driver*  
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 | U OF M MECHANICAL ENGINEERING DEPARTMENT, Ann Arbor  
AUG 2014 | *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

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