

Ryan R. Gysin

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EXPERIENCE

<i>Current</i> JULY 2023	BOEING DEFENSE, SPACE & SECURITY, Tukwila, WA <i>Real Time Software Engineer</i> Triaged and resolved issues discovered in hardware-in-the-loop integration lab Implemented communication protocol with external identification application Developed data aggregator to create detailed profile of targets in real time
MAY 2023 NOV 2018	MICROSOFT, Redmond, WA <i>Software Engineer II</i> Designed WinRT API for Microsoft reverse debugger Updated Application Verifier to allow it to run on ARM64 processors Reduced build failures by 90% by isolating imaging jobs in Azure VMs
OCT 2018 JULY 2017	NEXTEER AUTOMOTIVE, Saginaw, MI <i>Manufacturing IT Engineer</i> Designed C# applications to act as interface between PLCs and SQL databases
AUG 2016 MAY 2016	Wrote LabVIEW VIs to decode JSON messages and transmit them through TCP sockets Developed PLC routines to communicate with C# app and validate part specifications Co-led C# development training session specializing in WPF and .NET frameworks

EDUCATION

APR 2017	Bachelor of Science in COMPUTER ENGINEERING <i>University of Michigan, Ann Arbor</i>
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PROJECTS

APR 2017 SEPT 2015	MICHIGAN AUTONOMOUS AERIAL VEHICLE (MAAV) <i>President and Navigation Lead 2016-2017</i> Led team of 40 to place 2 nd in the 2016 International Aerial Robotics Competition Developed computer vision code for detecting grid and ground robots
APR 2017 JAN 2017	MGoKART Created autonomous gokart as concept for autonomous formula car Developed path planning and data filtering algorithms to steer the kart Designed and built hardware architecture to allow power distribution and communication Wrote code in C, Python, and Arduino to allow communication between the software algorithms, controls algorithms, and motors Reduced electromagnetic interference in wires across the kart by approximately 80% Simulated sensor inputs to system and validated outputs using vehicle dynamics model

ADDITIONAL

Languages: C++, C, C#, Python, T-SQL

Tools: Git, Matlab, LabVIEW

Assisted in research resulting in childrens book about cavitation bubbles

Drove U of M blue buses for 3 years while in college