

FRC Software for Beginners




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MRA Education Day 2018

Who am I?

- Jayesh Jariwala, P.E.
- Univ of Delaware BChE '98 
- Process control engineer for 20+ years
- Working at Applied Control Engineering, Inc
- FRC Mentor for 9 years (1893, 2528, 6326)



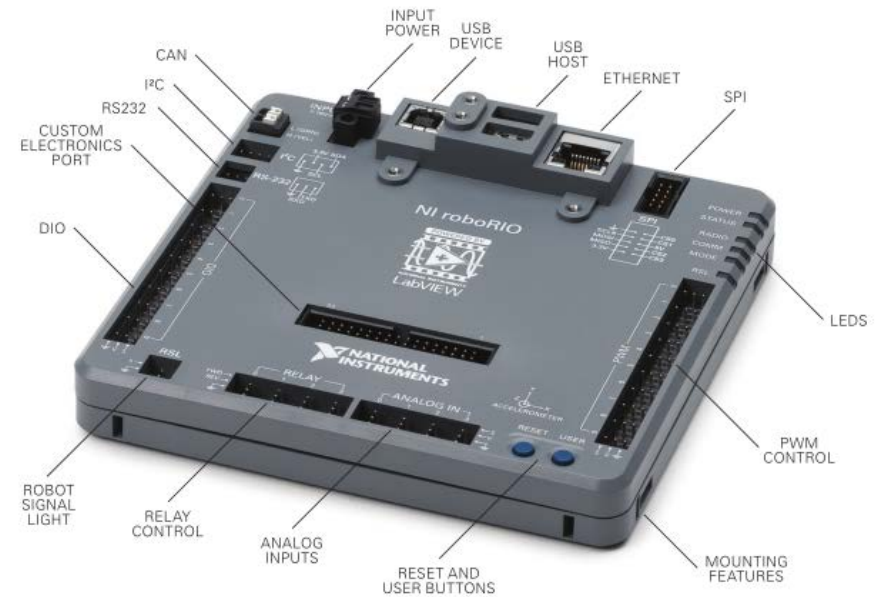
Topics

- Where do I begin?
- What languages do robots speak?
- Are there examples?
- Who can I turn to for help?
- Do I need to know everything about programming?



Robot Languages

- FRC robots use NI's roboRIO
- Languages:
 - NI LabVIEW
 - Java
 - C++
 - *Python*



Where do I start?

- WPILib (the place for FRC software libraries)
 - *2018 FRC Control System*
(<https://wpilib.screenstepslive.com/s/4485>)
 - *2019 FRC Beta*
(<https://wpilib.screenstepslive.com/s/currentCS/m/79833>)
- National Instruments (hub for LV software)
 - www.ni.com/frc



Resources

- Chief Delphi – forums
 - Create a free login
 - <https://www.chiefdelphi.com/forums>
- Team 2485
 - 101 Training - <https://www.team2485.org/resources/>
 - Java Programming - <https://www.team2485.org/programming-videos/>
- Team 1114
 - <http://www.simbotics.org/resources/programming/2009-control-system-workshops>



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Thanks for attending!!