What is ROBOTC?

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ROBOTC in a Nutshell

- A complete ‘C’ programming language for robotics.
  - Developed for Teaching, Powerful enough for Hobbyists/Professionals
- Extremely easy to use for both beginners and advanced users
  - Most “robot functions” are a single line commands.
Why ROBOTC?

• Single Programming Language / Multiple Platforms
  – NXT, IFI, FTC, etc.

• Developed for Education
  – Students learn in a friendly environment about C-Based programming
    • Friendlier Compiler, GUI Device Configuration, Code Templates
  – C-Based programming offers more transferability of job-related skills compared to graphical languages.
What is ROBOTC?

- Industry Standard ‘C’ Programming Language
- Programming Development Environment
- Interactive Run-Time Debugger
- High Performance Firmware
- Training and Curriculum Support

Complete and Total Solution for User Program Development
Programming Development Environment

• Source code editor
  – Syntax highlighting and formatting
  – Code completion
  – Integrated help/support
• Compiler, linker and program downloader - combined
• Interactive Run-Time Debugger
• Integrated “Joystick Station” for competition testing
• User friendly
  – “Basic” and “Expert” mode to adjust features and menus
• 100+ Sample Programs to learn from
Interactive Real-time Run-Time Debugger

- Run/Stop, Suspend/Resume programs from PC
- Single step through program execution, one line at a time.
- Unlimited user defined breakpoints
- Read / write / display the contents of any user variable.
- Consciously view the status of all devices in at run-time from your PC.
- Zero additional coding required
Support and Curriculum

• ROBOTC.net
Support and Curriculum

- Forums – 1400+ users
Support and Curriculum

- Teaching ROBOTC for Mindstorms