Introduction to **Java**

Tim Magoun and Aravind Koneru

compiled on May 29, 2016

This test will evaluate the familiarity of basic programming concepts as well as the knowledge of the Java programming language, which is used as the programming language of numerous FIRST®robotics competitions.

The following topics will be on this test:

- Primitive Types and Operations (*int, byte, boolean, etc.*)

- Modifiers (*final, public, static, etc.*)*

- Comparison Operators (*==, !=, >=,etc.*)

- Assignment operators (*+=, *=, =, etc*)

- Flow Control (*if, for, break, etc*)

- Methods and Parameters*

- Single- and Multi-Dimensional Arrays

- Object Oriented Programming*

- Inheritance and Polymorphism*

* Starred items are extremely important in programming a robot