ECEN 489: Notes 1 – Necessary Software

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1   C++ Toolchain and Windows

There may be issues with trying to set up Eclipse and MinGW with the Windows operating system.

Note: Use only 32-bit version of all software involved.

2   Action Items

- **Download and Install:** MinGW. In the installation manager, select the following three packages from the basic setup tab: `mingw32-base`, `mingw32-gcc-g++`, `msys-base`. Go to `Installation` tab and apply these changes.

- **Download and Install:** Java JRE. The version you want is the 32 bit version of JRE7u25. Get the Windows x86 Offline version that is 30.25 MB.
  `http://www.oracle.com/technetwork/java/javase/downloads/jre7-downloads-1880261.html`

- **Download and Install:** Eclipse C/C++.

- **Restart Computer.**

- **Open Eclipse:** Create a C++ project (the hello world project), and make sure to select the MinGW toolchain.

Once the project is open, press `CTRL B` to build the `.exe` file for your program, right click the project in Project Explorer and select `Properties`. Go to `Run/Debug Settings` and choose your `.exe` file from the selection menu. Click `Edit...`, go to `Environment` tab, click `New...`, and enter the following information.

$$\begin{array}{ll} \text{Name:} & \texttt{PATH} \\ \text{Value:} & \texttt{C:\textbackslash MinGW\textbackslash bin} \end{array}$$

Click apply, and hit all of the OK's to return to the main workspace. You should be able to run the program and display output on the console now.