I hate typing on this \$@&# eeePC!

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Why does this matter?

- eeePC keyboard/mouse/monitor can be PAINFUL to program on
- Parallelize your programming efforts
- Increase productivity!

ssh

• Use ssh to run code on your eee. ssh 18.62.31.65 –l username

 Can update svn or git repositories, compile code, and run code as if you were doing it on the eee's keyboard.

Passwordless login

- Tired of typing your password everytime you log in via ssh? Set up passwordless login!
- Directions on http://maslab.mit.edu/2011/wiki/SSH
- Makes your life A LOT simpler!

Automating compiling

- Apache Ant "another neat tool" http://ant.apache.org/
- Describe processes in build files to automate them
- Like make but better
- Support in both Eclipse and NetBeans
- Sample file at http://maslab.mit.edu/2011/wiki/Build.xml

Anatomy of build.xml

```
oject name="ant-tutorial" default="build" basedir=".">
cproperty name="binDir" value="bin"/>
cproperty name="srcDir" value="src"/>
<target name="build">
  <!-- This does deep dependency checking on class files -->
   <depend srcdir="${srcDir}" cache="depcache"</pre>
        closure="true"/>
   <!-- This compiles all the java -->
  <javac srcdir="${srcDir}" includes="**/*.java" debug="true"</pre>
   classpath="lib/maslab.jar:lib/orc.jar"/>
</target>
</project>
```

 Execute this using "ant" or "ant build" or inside Eclipse or inside NetBeans

What else can you automate?

Note for Windows users

 You'll probably have to install Cygwin or something similar to take advantage of uploading code.

Communicating with running code

maslab.telemetry.botclient.Channel. addCommandListener(JugMessageListener listener)

Use this to change PID constants WHILE code is running.

But what's my IP?

- Still need to type on the eeePC to get your IP address, right? Wrong!
- Use a dynamic DNS service such as dyndns.com
 - maslab-bot-N.dyndns-free.com

SVN and git tricks

- Now it's much easier to have several people code at once. Eclipse makes this harder than it should be.
- echo ".classpath" >> .gitignore
- echo ".project" >> .gitignore
- svn propset svn:ignore –F .gitignore .
- svn up
- svn ci –m "ignoring Eclipse project files"