# Eric Dinger

egdinger@gmail.com
479-244-6432

5024 SE 33rd Pl
Portland, OR
97202


## Education

- Portland State University — Portland, OR

  Maseeh College of Engineering, B.S. Computer Science — 2012

  - Awards and Honors
    Mecop Internship
  - Clubs and Activities

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## Open Source Software Experience

- **Autonomus Vehicles Team** — Portland State University
  - Created drivers for sensors: ADXL345 (I2C accelerometer), Maxbotixs sonar sensor, Sharp IR Distance sensor, Autopilot Voltage and Current sensor.
  - I2C bug
  - Created a simple physics simulation of a quadcopter, gyro and accelerometer in python.
  - Command line GDB
  - Height measuring code

- **CS Capstone: Linux Kernel Tinification** — Portland State University
  Led a capstone team that created several patches to the Linux kernel with the aim of drastically reducing the on disk size for use in embedded environments. These patches include compile time options for core dump removal, tty removal, real time scheduler removal, and changed the command line options for the compression stub to compile time. I also managed KVM based virtual machines used for testing and debugging the modified kernels.

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## Work Experience

- **Mentor Graphics** — April 2011 - September 2011
  *Software Engineer Intern*
  - Created a high level programmable interface using TCL for analyzing SVRF rule files inside of YieldServer.
  - Modify the built-in TCL info command using C++ and wrappers in YieldServer to suppress the return of internal API namespaces.

- **FLIR** — April 2010 - September 2010
  *Software Engineer Intern*
  - Ran Coverity on the code base and reported the findings. Explored how to integrate the use of Coverity into the existing build process.
  - Worked with manufacturing to design a new tool to set configurations and upload software to the new model Star SAFIRE.
  - Updated WinSpectrum to use the newest codebase and added the ability to work with NTSC input and output. This required working with Blackmagic Capture Cards and updating the onscreen symbology.
  - Customer integration of updated WinSpectrum in an unusual networking environment involving serial to Ethernet converters and 9 bit serial protocols.

- Created a proof of concept DLL that allowed Labview to communicate with the remote application protocol interface in the new Star SAFIRE.

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## Personal Projects

- **Android RTI Calculator** A small app I used to get familiar with the Android environment. RTI is easily compared number relating to suspension performance in offroad trucks, by inputting a few measurement this app gives you your RTI number.

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## Skills

- **Languages**
  C, C++, Visual C++, Python, Java, Android, Shell scripting, TCL
- **Technologies**
  GCC, G++, GDB, objdump, Android, I2C, Git, grep, Coverity