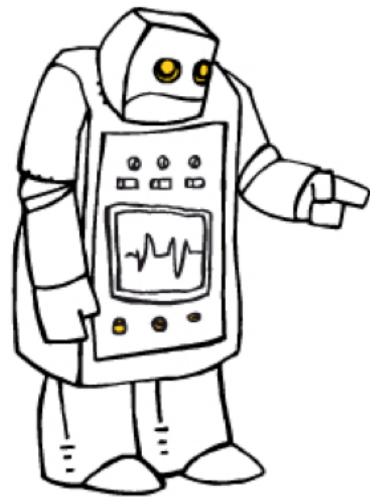




# About Me



Sebastian Brannstrom

Work at Symbian Foundation in London

Open source nut

Listen to death metal

@teknolog



# About Symbian



- ❑ World largest smartphone OS
  - ❑ Approaching 400 million shipped devices
  - ❑ Over 100 million devices shipping per year
  
- ❑ Open Source since February 2010
  - ❑ EPL/LGPL license
  - ❑ Governed by the non-profit Symbian Foundation, based in London
  - ❑ Hosted at [developer.symbian.org](http://developer.symbian.org)
  
- ❑ Arguably world's largest open source project
  - ❑ 40 million lines of code
  - ❑ At least 300 million phones in active use



# What good is open software?

- ❑ What good is open source when there is no open hardware?
- ❑ There are plenty of open hardware stacks out there, but Symbian did not support them



- ❑ Nothing a few smart engineers can't fix!



# Let's make a phone!

- ❑ Out of this came a garage project at the Symbian Foundation
- ❑ Let's build a smartphone of our own, from off-the-shelf hardware with the latest Symbian version
- ❑ A small group of passionate individuals, staying late on Tuesday evenings started playing with the BeagleBoard
- ❑ Slow start, now quickly gaining momentum



# The BeagleBoard

- ❑ Another garage project, this time from TI
- ❑ A system-on-a-board based on the OMAP3530 chipset (ARM Cortex A8 CPU, PowerVR SGX530 GPU)
- ❑ Performance similar to high end smartphones of today
- ❑ Cheap, extensible and has open specifications
- ❑ Enough to bring up Symbian on!



# BeagleBoard Extensions

- ❑ The BeagleBoard is a fine platform, but it doesn't provide everything needed to make a smartphone.
- ❑ Luckily, we have friends in the industry
- ❑ We approached Antrax in Germany to build us a board with UMTS/GSM, GPS, Ethernet, serial ports and touch screen interface – the BeagleUMTS
- ❑ And Chinese BYD Industries were happy to supply a touch LCD display with drivers!
- ❑ These extensions will soon be commercially available!
- ❑ Next year we might even have something that resembles a phone...



# Building momentum

## Corporate support

- Accenture
- Cell Telecom
- BYD
- Antrax
- Nokia
- Cypress Semiconductor



Some people now work full time on the project, but most work in their spare time

Tuesday evenings we get together at the Symbian office to work on and discuss the project over pizza.

Free pizza!

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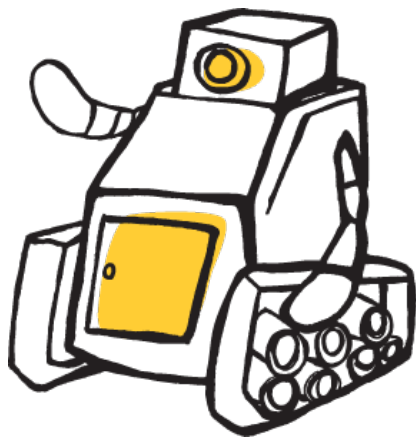
# Where are we now?

- ❑ A lot of stuff works great!
  - ❑ Symbian^3 UI works out of the box!
  - ❑ Phone and GPS
  - ❑ Data connectivity is being worked on full time
  - ❑ BYD nearly done with LCD drivers (beta quality now)
- ❑ Simple to get started!
  - ❑ ROMs provided with the Symbian platform development kit
  - ❑ Just copy to SD card and boot the device
- ❑ Simple to contribute!
  - ❑ Documentation, TODO lists and backlogs in wiki
  - ❑ Code repositories
  - ❑ Know-how to help you out
- ❑ Good hardware
  - ❑ BeagleUMTS and LCD provide many new features



# But we need more help!

- ❑ We need more drivers to extend the board functionality, such as Ethernet, USB host, audio, graphics acceleration etc
- ❑ Provide feedback, exchange ideas and help us with developer outreach and project promotion.
- ❑ Check out the wiki page at : <http://tiny.symbian.org/wildducks>
- ❑ Join the mailing list: [wild-ducks@lists.symbian.org](mailto:wild-ducks@lists.symbian.org)
- ❑ Come to our office in Waterloo on Tuesday evenings



Free pizza!

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Q&A





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