

Extreme Agile

Things I learned from
managing fully distributed teams

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My Background

- ◆ SW engineer turned manager
 - ◆ Consumer, Commercial Aviation and Military
 - ◆ Embedded Linux, Native Applications, Web Services
- ◆ Been managed by and managed with a variety of development methodologies
 - ◆ Waterfall & Iterative (Scrum, Kanban)
- ◆ Spent the last 2.5 years At Linaro
 - ◆ Dedicated to improving 'Linux on ARM'; directed engineering team
 - ◆ Engineering manager for Automation & CI teams
 - ◆ Director of Linaro Product teams (LAVA, Stable Kernel, Toolchain)

Managing a remote workforce is becoming very valuable

- ◆ 2014: Gartner estimates 54 Million people involved in some sort of remote work
- ◆ 2013: US Average Commute time 25 minutes
 - ◆ 4.3% work from home (13.5 Million)
- ◆ Home-based engineers, digital nomads
- ◆ Key Benefit: You aren't restricted to the local talent pool,

<https://blog.elucidat.com/mobile-learning-statistics-for-2014-6-trends-you-need-to-know/>

<http://www.usatoday.com/story/news/nation/2013/03/05/americans-commutes-not-getting-longer/1963409/>

Fully Distributed



Fully
Distributed

-VS-

Distributed
Teams



Questions

- ◆ How many people in here work with fully-distributed teams?
- ◆ In companies that have remote teams?
- ◆ As I go through the rest of slides, I'm curious
 - ◆ What are your challenges?
 - ◆ How do you overcome them?

What worked best for us?
(in my opinion)

Tailor Your Process

- ◆ Off-the-shelf processes didn't fit
- ◆ Waterfall is Waterfall
- ◆ Iterative methods are preferred
- ◆ Scrum didn't work due to ceremony's & value of co-location
 - ◆ Tailoring to meet our needs almost removed the 'scrum' in scrum

Customized Kanban

- ◆ Core team creates and manages 'Business Backlog'
Tech Lead, Product Owner/Manager, Product Manager
- ◆ Weekly design meetings 'as-needed'
- ◆ Quick stand-ups on days there weren't other meetings
- ◆ Team was empowered to add and/or lobby for next tasks
- ◆ Extract information from tools to assist with reporting
- ◆ Designed with latency in mind

Build Friendships

- ◆ Week long Bi-annual company-wide conferences
 - ◆ Build strong friendships and trust
 - ◆ Learn new technologies
 - ◆ Company vision/mission & general joint hacking time
- ◆ In the first 3 months at Linaro, I felt I knew my team better than I knew previous teams after years

“timezone close”

- ◆ Proactively fight isolation
- ◆ though fully distributed works, try to have some team members within a timezone or two
- ◆ Create reasons to get engineers that are “timezone close” to work together
 - ◆ training new engineers, ‘pair’ programming

Cross-team Projects

- ◆ Initiatives are great to bring people together
- ◆ Find ways to bring people together across projects
- ◆ It's more exciting when it 'matters'
 - ◆ kernelci.org, though it started as an initiative, soon I realized I couldn't stop the team working on it if we wanted to

Tools & Systems Matter

- ◆ fully collaborative tools
 - ◆ You won't realize the power until you don't have them
 - ◆ Google Apps (Hangouts, Calendar, Docs, Sheets, etc)
- ◆ Chat platforms - IRC with server and/or Slack

Tools, Cont.

- ◆ Development tools
 - ◆ git, Gerrit, Jenkins, LAVA
- ◆ Project management tools
 - ◆ None are perfect, but if you can, find a simple gui that has command line interface-ability

Development Practices

- ◆ Establish a Sound development process that the team uses, compare that to information you & company need
 - ◆ Often times, just write it down
- ◆ Automate as much as you can to protect your developers
 - ◆ Find a few engineers to champion testing
- ◆ Identify Key metrics

Experience/Hiring

- ◆ When hiring remote workers, you should only hire experts?
- ◆ You should only hire people with previous remote experience?
- ◆ Actually, I strongly believe previous 'remote' experience was not a key indicator of success
- ◆ A key in any business is the ability to attract and find the right people

The one thing that worked better than anything else

- ◆ Past open-source contributions
 - ◆ proven ability to work with critical code reviews
 - ◆ ability to work with experts to extend software
 - ◆ Pride; Proud of their code and they are open to criticism
 - ◆ Naturally autonomous, self-starters
- ◆ New engineers seemed more willing to being open than those trained to keep things closed

Location

- ◆ Unfortunately there is a trick to open-source engineers, they don't 'currently' grow where 'you' want them to grow
- ◆ They are in demand
- ◆ May or may not be open to relocation
- ◆ If you want to hire them you may need to get good at managing 'fully' distributed teams

Thoughts
Questions
Discussion