Development Engineering

CSEP 590 B Remote Temperature Monitoring Richard Anderson April 20, 2020



Announcements

- Discussion Sections Zoom Attend one
 Wednesday: 3:00-4:00 pm
 - Wednesday: 5:00-6:00 pm
- Homework 3, Due April 27.
 - Submit by email
 - Course grade based on 7 of 9 assignments

Date	Торіс	Lead
April 6	Engineering the Vaccine Cold Chain	
April 13	Community Cellular Networks	Kurtis Heimerl
April 20	Remote Temperature Monitoring	Martin Lukac, Nexleaf
April 27	Election Monitoring	James Long
May 4	Voice Based Social Networks	Aditya Vashistha
May 11	TBD	
May 18	Fintech for Rural Networks	Jenny Aker
May 26	TBD	
June 1	Open Data Kit	Waylon Brunette





DevEngr Startups

- Startup model
 - An innovative disruptive idea
 - A small dedicated team
 - A supportive ecosystem
- Many examples as Social Enterprises
- Ecosystem
 - Challenge grants from BMGF and other organizations
 - Programs such as USAID "Saving Lives at Birth"
 - Support from Philanthropists

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Today - Nexleaf Analytics

- Founded by UCLA PhD Graduates
 Nithya Ramanathan, CEO
 Martin Lukac, CTO
- Focus on remote monitoring at scale
- Founded as non-profit in 2009
- Strong technology development and engineering development

UW Work on Remote Monitoring

· Basic connectivity for health clinics

Making dumb phones less dumb
Making smart phones smarter

Smart Connect

Fone Astra



Over to you Martin and Terry . . .

2











Android Fone Astra

- Version 2 of FoneAstra replaced basic phone with Android phone
- Communication by bluetooth or USB
- Separate power for FoneAstra device
- Programmability and UI on phone
- Build on ODK Sensors











