# ROS at Every Level

#### The Plan

Mac Mason: Why ROS?

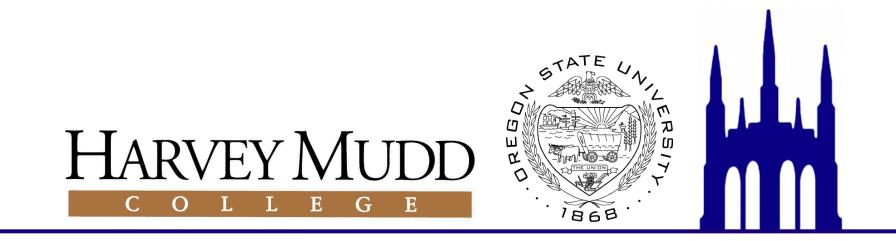
Zach Dodds: Hands-on: Getting Started!

Coffee break: ...food too?

Mac again: Not-ROS for neophytes

Bill Smart: Where ROS Leads

Zach again: Hands back on!



## Why ROS?



#### Robotics Research Lingua Franca

Hundreds of academic papers
≈30 robots supported
>150 ROS software packages released



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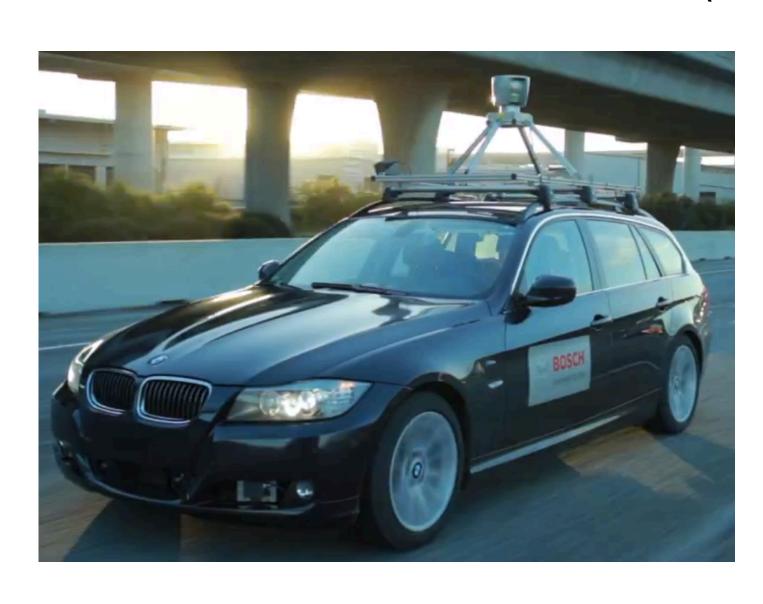


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(Becoming) an Industrial Lingua Franca task performance





behavior-based intelligence

human presence detection with 360° sonar and front camera

to the arm and display on the arm and display on the face

vision-guided movement visual object identification

vision-guided movement of the arms and force sensing at each joint. Can feel bumping into people or objects

train objects and tasks by direct movement of the arms

http://www.cs.hmc.edu/~dodds/ROSatSIGCSE2013/