Brad Saund

Education

2015– **May 2017** **Master's of Robotics**, *Carnegie Mellon*, Pittsburgh.
Biorobotics lab
Path planning and precision localiation in confined spaces

2008–2012 **BS Mechanical Engineering**, *Caltech*, Pasadena.

Work Experience

2014–2015 **Software Development Engineer**, *Amazon*, Seattle.
I created software for the Amazon Kindle E-Readers and Tablets.

2012–2014 **Robotics Engineer**, *Electroimpact*, Seattle.
I designed, built, and programmed robots that build airplanes

2010–2012 **Research Fellow**, *California Institute of Technology*, Pasadena.
Fluid Dynamics Research

Skills

Programming Git, ROS, C++, Java, Matlab, Python

Deployment Deployment to production environments of both software and hardware to millions of machines (Kindle) and machines worth millions of dollars (aerospace robots)

Robotics Path Planning, Sensor Fusion, Localization, Autonomous Vision and Navigation

Robots

Arms Kuka KR-500, Mars Arm, Siemens 840D

Vision Pathfinder using SLAM

Locomoting Hebi Snake, Hexapod

Stability Quatcopter, Segway

Service

2013–2016 **Volunteer Mentor**, *FIRST Robotics*.

2011–2012 **President**, *Caltech Student Government*.

Publications

Bradley Saund, Shiyuan Chen, and Reid Simmons. Touch localization for high precision manufacturing. *ICRA*, 2017.

Bradley Saund and Russell DeVlieg. High accuracy articulated robots with CNC control systems. *SAE International Journal of Aerospace*, 6(2):1–6, 2013.

References

Carnegie Mellon
- Reid Simmons
- Howie Choset

Electroimpact
- Russ DeVlieg

Caltech
- Matthew Heverly

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