

## Education

- 2015–  
**May 2017** **Master's of Robotics**, *Carnegie Mellon*, Pittsburgh.  
Biorobotics lab  
Path planning and precision localization 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**, *Caltech*, Pasadena.  
Fluid Dynamics Research

## Skills

- Programming Git, ROS, Tensorflow, OpenCV, 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 | Locomoting | Hebi Snake, Hexapod |
| Vision | Pathfinder using SLAM               | Stability  | Quadcopter, 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

- o Reid Simmons
- o Howie Choset

### Electroimpact

- o Russ DeVlieg

### Caltech

- o Matthew Heverly

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