

ELLIOT BARTEL

Cambridge, MA
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EDUCATION

Cambridge, MA	Massachusetts Institute of Technology	2012-2016
<ul style="list-style-type: none">· S.B. in Computer Science and Engineering, June 2016.· Coursework: : Mobile & Sensor Computing, Computer Vision, Machine Learning, Design & Analysis of Algorithms, Artificial Intelligence, Computational Photography, User Interface Design & Implementation, Interactive Music Systems, iOS Game Development, Software Design, Linear Algebra, Discrete Mathematics.		

AWARDS

First Place MIT Computer Vision MiniPlaces Scene Recognition Challenge, out of 20 teams.	Fall 2015
Grand Prize MIT 6.670 iOS Game Development Competition, out of 15 teams.	Winter 2014
First Place Software Design in Final Project, MIT Software Construction Course, out of 60 teams.	Fall 2014

WORK EXPERIENCE

	Atlas5D	
Dec. 2016 - present	R&D	Computer Vision Research Scientist
<ul style="list-style-type: none">· Worked to create a device which captures clinical-grade motion measurements of patients in the home· Trained deep learning classifier to differentiate a patient from other people based on depth (not RGB) data· Curated datasets for training and testing convolutional neural networks implemented with TensorFlow		

	MIT Computer Science and Artificial Intelligence Lab	
Spring 2016	Vision Group	Undergraduate Researcher
<ul style="list-style-type: none">· Evaluated accuracy of convolutional neural networks performing pixel-wise semantic image segmentation· Wrote Python scripts using PyCaffe library to test the performance of Caffe-implementations of CNN's on images taken from moving vehicles		

	Google Inc.	
Summer 2015	Android Wear Applications	Software Engineering Intern
<ul style="list-style-type: none">· Added a new type of note to Keep (Android's first party reminders app) for Android Wear watches· New note allows users to sketch multi-color, vectorized drawings on their watch and efficiently sync those notes to a phone over the bluetooth pairing		

	MIT Media Lab	
Spring 2015	Tangible Media Group	Undergraduate Researcher
<ul style="list-style-type: none">· Applied computer vision algorithms (edge, corner, and blob detection) to the inFORM kinetic shape display to allow it to detect, locate, and manipulate a set of blocks· Implemented the interactive software using a Kinect, C++, OpenCV, and openFrameworks		

	Apple Inc.	
Summer 2014	Interactive Media Group	Software Engineering Intern
<ul style="list-style-type: none">· Applied machine learning and computer vision algorithms to prototype a potential feature for OS X and iOS· Programmed a stand-alone application and UI in Objective-C and C++ showing the accuracy and usefulness of certain computer vision algorithms in making the new feature possible· Presented the application to John Stauffer, Apple Vice President, to demonstrate the feature's benefits		