Weekly reports are to be emailed to atbecker@uh.edu by 5:00pm on Tuesdays. The purpose of a weekly report is to: (1) give you text and images for your papers, thesis, and dissertation, (2) document progress, (3) identify if you are stuck or need resources.

Weekly report

1. **My *Goals* from last week**

* Change the algorithm of ‘DepthFirstSearch’: Find all possible build paths
* Plot the factory size against number of tiles for smallest, largest, row part and column part
* Read papers for related work and then mention them in the paper

1. **My *Accomplishments* this week**
   1. The codes and the paper have been updated on github
   2. I’m working on the DFS code. I’ll give an update on the code in the weekly meeting.
   3. I’ve plotted the factory size:



According to my analysis the row part would be the lower bound and column part would be the upper bound for the factory size. All the other parts with the same number of tiles should fall in between these limits. I’ll add other parts to this plot

* 1. I’ve read the papers for the related work:
* Untethered micro-robotic coding of three-dimensional material composition.
* Programmable self-assembly in a thousand-robot swarm

I’ll mention these in the paper today.

1. **My *Goals* for next week**
   1. Meeting with Dr. Becker on <10th February 2017 at 9:00 am>
   2. Work on the ‘Related Work’ section of the paper
   3. Put simulation results for running time in the paper
2. **What I need Dr. Becker to do:**
   1. ----