



THE SAM100: ANALYZING LABOR PRODUCTIVITY

The construction industry is one of the slowest when it comes to labor productivity. As a result, construction projects see an increase in duration and labor costs. New technologies are being introduced within the construction industry to increase labor productivity. It is becoming more and more important for the industry to adapt to these technologies. Among them are robots. The SAM100 is a brick-laying robot that can replace most of the masonry crew on a project. Utilizing this technology on masonry-heavy projects could have significant benefits. This project analyzes the benefits and weaknesses of the SAM100 on the Jay and Susie Gogue Performing Arts Center project at Auburn University in Alabama. When analyzing its benefits, this project focuses on the qualitative data concerning its implementation into the project. It provides insight on the advantages and disadvantages of the robot, and some challenges met from using this piece of equipment. The purpose of this project is to provide key information regarding the utilization of the SAM100 from a construction project that used this piece of equipment and make suggestions for its application in the future.



**The Semi-Automated Mason 100 (SAM100)
Brick-Laying Robot**



**The Jay and Susie Gogue Performing
Arts Center (Auburn University)**

Project Description
85,000 S.F.
\$56 million
20 month schedule



**Construction
Robotics**
Advancing Construction



RABREN
GENERAL CONTRACTORS