



**Applied Research Center Student Newsletter**

<http://www.wm.edu/sites/arc/newsletter/index.php>

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## **Boys and Girls Clubs Demo - March 2015**

On March 18<sup>th</sup>, Amy, Brandt, Reed and Nick traveled to the Suffolk Unit of the Boys and Girls Clubs of Southeast Virginia located at John F. Kennedy Middle School as part of Amy's "Fill the Gap" grant project to promote STEM concepts to a classroom of 15 middle school students in the after school program.



Reed is shown explaining the various parts of the 3-D printer to the students. During this demo he attached the filament and started the 3-D printing program so the students could observe the 3-D modeling real-time.

Reed and Nick are shown here presenting a PowerPoint of our new 3-D printer. The demo included the history of 3-D printing along with current and potential applications. Students were also introduced to engineering concepts involving additive and subtractive fabrication, material strength and material deposition. Due to the high temperature operation of the 3-D printer, special safety concepts were introduced to the students.



The demonstration concluded with the students examining the newly formed 3-D model and making suggestions to Amy for 3-D models they would like us to print for the next visit scheduled for April 1<sup>st</sup>.

Along with the students, Brandt is shown here running the AV equipment needed for the presentation.

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