



## The Rube Goldberg Machine

*The 90 year old concept's lessons for the engineering student*

"The Makerspace give you a place to take your ideas and bring them to life," freshman Stephen Bader remarks about the West Campus space for The School of Computing of Engineering. Students of the School of Computing and Engineering's students have used their visions to incorporate into a Rube Goldberg Machine (RGMC) at the MakerSpace. In simple words, a RGMC is a contraption with many aspects meant to create chain reactions, resulting in a simple result – for example, turning the page Of a book. Professor Kaya acknowledges the importance of his students partaking in this, "It incorporates almost every aspect of engineering." Collaboration was certainly a great learning experience. Because the project is being accomplished during the summer, people had to fill in and improve each other's creations. "I took Gabe's model and made sure that it worked correctly after he left for vacation," student Angelica Galati proves that all students involved have stepped up to the plate. The communication between the future engineers was impressive.

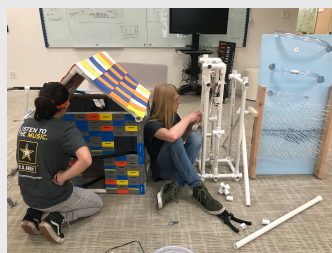


*Henry Sinclair creating a lever, using aspects of Electronic Engineering.*

Because the Engineering school is new, the students working on creating this machine are freshman. However, their age does not limit them. If anything, using the MakerSpace for their projects has put them ahead. A major lesson learned for the freshmen going sophomores while working on the RGMC were trial and error, "There's no glamour when it comes to me – sometimes I get it, sometimes I don't," noted with a laugh.



*Angelica Galati collaborating using Lucinda Cahill's model.*

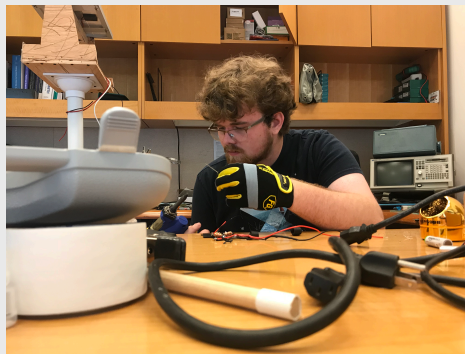


*The bigger picture*

# Solar Power!?

## Solar Powered Charging comes to Sacred Heart

Sacred Heart University student Stephen Bader has also made waves working on his project to be debuted by homecoming. This month, he focused on making a wireless solar charger for students to use at homecoming and other events. Although it's a more large-scale project, the fear of failure has not ceased Bader from pushing through, "I've destroyed a bunch of things but I'm taking it step-by-step and all and all, I have learning something new because of it." It is apparent that Stephen has used aspects which he learned from Professor Kaya's Engineering courses to jumpstart his projects. Becoming familiar with an Arduino and simply being able to better spark ideas are some of the many lessons implemented into this month's MakerSpace accomplishments. It was impressive to watch Stephen use some of the MakerSpace gadgets and tools as well as at-home items people would not think twice about recycling. The items range from drill bits to a disassembled car charger. Bader's ultimate goal is for Sacred Heart students to be excited about this project and for him to possibly expand it on a larger scale. Solar power is the future, after all.



*Stephen Bader at work*



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