Possibilities

by Mike Fitts

He wanted to find a solution to these problems. There must be some way to make a test small and portable enough to bring to the underserved masses of the world! A kind of “Backpack Ophthalmology.”

When Dr. Ayyala saw his first virtual reality headset, he had an incredible idea to use video game technology to conduct glaucoma tests. But this wasn’t a problem that could be solved with solely his own medical understanding. He went to the Department of Computer Science, a department that wasn’t just open to working across fields—it is set up to do so by design; our entire computer science department is made up of faculty who work on the application of technology to solving other problems, which has led to some truly amazing results.

It was the perfect department for Dr. Ayyala to enlist a team of faculty and undergraduate students, whom he tasked with creating a virtual reality glaucoma test that can literally fit in your backpack. One of these students is Carolyn Ma, a senior majoring in finance and computer science. For the rest of her life, she’ll get to brag about how her capstone project will help prevent blindness in millions of people.

Today the project is nearly complete. It will be cheap and entirely portable, and it will stop blindness in its tracks.

That’s what Tulane does; we make innovation possible by thinking about problems from every perspective. We push our students to engage, hands-on, in world-altering research.

Walter Isaacson, a great friend of Tulane, once said, “Innovation will come from people who are able to link beauty to engineering, humanity to technology and poetry to processors.” This is the beauty of Dr. Ayyala’s ambitious project. This is the future of higher education and research, and it is undoubtedly the future of Tulane.

I wonder how Tulanians will continue to change the world in 2017?