Blitz Participants

Fall 2023

3D Xray

Jatin Singh (H&R '24), Grant Kokenberger, Tamerlan Mustafaev

3D Xray's Idea: The sixth leading cause of death in the US, pneumonia, is missed between 21-45% of the time from the initial x-ray. Recent AI advances from the Pitt 3D X-ray team can not only diagnose pneumonia more accurately but also quantify the extent of the disease in 3-dimension.

Aneurisk

Micah Guffey (SSoE '27), David Vorp

Aneurisk's Idea: Aneurisk's novel solution is an AI-based clinical decision support software that improves the care of patients with arterial aneurysms through personalized risk predictions.

Aquaduct

Vidhan Dhol (A&S '25), Matthew Murawski (A&S '25)

Aquaduct's Idea: Aquaduct is a project devoted to helping communities stricken by preventable water-stress related deaths through developing and implementing cheap, powerful, and efficient water desalination technologies. Ocean to Life, that's their goal.

Biocompatible Artificial Muscles

Sivakumar Irla (SSoE '24), Abdullah AboHussein, M.Ravi Shankar

Biocompatible Artificial Muscles's Idea: The team presents remotely-powered, implantable robotic muscles, which step in to augment bodily functions when the natural muscles fail. Their devices use molecularly architected polymers which self-direct their actuation using wireless electrical stimulation to power implanted robots.

Caring Continents

Meenu Ramasamy (CBA '23) and Suchita Kumar (A&S '23)

Caring Continents's Idea: The concept revolves around individuals who relocate to foreign countries for various reasons such as employment, education, business, or other opportunities. Many of these individuals are the only children of their parents, and when their parents grow old and require medical care, they face a dilemma. To address this concern, Caring Continents is introducing a service that collaborates with local hospitals. This service aims to provide peace of mind to these individuals by taking care of their parents or elderly family members back in their home country. Through their partnership with local hospitals, the team will offer continuous 24/7 medical care, regular weekly checkups, and emergency services.

Continuity

Haley Baumeister (CBA '24)

Continuity's Idea: An e-commerce brand that sells self-care and lifestyle-oriented apparel/merchandise/products. The products will embody the word 'continuity' for everything it means: consistency, connectivity, and uninterruptedness. The student lead of this team wants this brand to grow while helping people feel empowered to grow as well.

Blitz Participants

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DaisySphere

Faris Bouzid (CBA ‘24), Nathan Fawcett

DaisySphere’s Idea: Your Voice, Our Community. DaisySphere aims to create an all-inclusive audio platform.

ECE LabBox

Jordan During (SSoE ‘ 26), Taavi Herzog

ECE LabBox’s Idea: ECE LabBox is an all-in-one electronics toolkit designed for students and innovators to make learning about ECE topics easier. Currently in an app, it isn't just about features; it's about breaking down barriers. It’s a passport to success in the world of circuits and innovation.

Epidural Spinal Cord Stimulation

Ansah Gilgal (PhD ‘26)

Epidural Spinal Cord Stimulation’s Idea: A neuromodulation system which consists of a sensorized prosthesis that records pressure under the sole of the foot during standing and walking and an implanted spinal cored stimulation system that delivers electrical stimulation to evoke sensations that appear to emanate from the missing limb.

ETA

Tiffany Xiao (CBA ‘25), EmmaTristano (SCI ‘24)

ETA’s Idea: ETA’s app Wisp will revolutionize online tutoring by creating an approachable and accessible space for students to learn from their previous mistakes.

Everlasting Flame

Susana Alvarez (SCI ‘25)

Everlasting Flame’s Idea: The everlasting flame, for every birthday, every celebration, and everything in between. An electronic birthday candle that works with sensors.

Forevergreen

Jack Pearson (CBA ‘25), Joe Pearson, Zack Yardley

Forevergreen’s Idea: Forevergreen is a non-profit that plans to educate the public about carbon emissions and reward them with a stake in their reforestation projects through carbon offset credits. The mission is to educate users about their emissions and build goodwill for the Voluntary Carbon Market.

Mealzy

Alison Linares (SSoE ‘24), Bruce David

Mealzy’s Idea: College students spend hours busy in the same building, many of which don’t have food options. Uber doesn’t work here because deliverers can’t get into buildings and don’t know campus. Student deliverers are familiar and likely covering these routes. Mealzy facilitates food options while providing a quick way for students to earn money while doing their daily activities.

Bitz Participants

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Modus Vivendi

Vidya Surti (A&S '24), Meghana Dodda, Romit Kulkarni

Modus Vivendi's Idea: Modus Vivendi aims to revolutionize safe treatment for schizophrenia. Their tailor-made Augmented Reality redefines therapy, gamifying patient care to boost medication routines and decrease readmission rates. Join their mission to reshape the inpatient to outpatient transition through tech and teamwork!

noVRel

Sejeal Katiyar (SSoE '24), Tanvi Mittal, Sam Lord, Andrew Daoud, Garret Martin, Amogh Vellore, Mahima Ravi

noVRel's Idea: noVRel is developing an attachment for the Microsoft Hololens 2 to condense current pieces of surgical equipment into one device. The three key features of the device include a high-zoom stereoscopic camera, high-lumen headlights, and fluorescent microscopy functionality.

Phoenix Health Care Technology

Emily Brown (MD PhD '26)

Phoenix Health Care Technology's Idea: The vision for Phoenix Health Care Technology is to develop an integrative software platform for implementation within health care systems to bridge the gap in access between primary care and specialist services that exists for individuals healing from psychological trauma and abuse.

Pitt Panther Path

Gabriel Penedo (A&S '24), Luis Castellanos

Pitt Panther Path's Idea: Pitt Panther Path is an AI application that makes use of a simple student input in order to output a clear concise plan of action for academic and career success. Their hope is to help current Pitt students make the most of their vast opportunities here at the University of Pittsburgh.

PREM Tech

Priscilla Prem (SSoE PhD '26)

PREM Tech's Idea: PREM Tech's nanogenerator devices power boats using renewable energy harvested from ocean water. This will enable boats to use less fossil fuel, reduce cargo weight, and increase safety by eliminating the need for flammable batteries because the ocean is always "on".

Rate My TA

Mykola Chernyashevskyy (A&S PhD '27)

Rate My TA's Idea: A site that uses an AI language model to screen reviews students post about their Teaching Assistants.

Blitz Participants

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SimuClip

Jason Lee (A&S '23), Rohan Krishnan

SimuClip's Idea: A novel mechanically-applied, biodegradable clip designed for the safe and efficient harvesting of blood vessels.

Skin Perfusion Platforms

Shanae Butler (SSoE PhD '25)

Skin Perfusion Platforms's Idea: The team is working on a full-service platform which will provide a biologically-relevant human skin alternative to animal models and improve product and drug translation rates in the preclinical phase to Phase I.

Sharp

Jacob Sharp (SCI '26)

Sharp's Idea: An educational service.

TBD Cuff

Cyrus Darvish (Masters '24), Pete Gueldner (SSoE PhD '25)

Phoenix Health Care Technology's Idea: The vision for Phoenix Health Care Technology is to develop an integrative software platform for implementation within health care systems to bridge the gap in access between primary care and specialist services that exists for individuals healing from psychological trauma and abuse.

Unveil

Luke Charlesworth (SCI '23), Jermaine Sykes (CBA '24)

Unveil's Idea: Empowering artists by making investing in art simple and open to all.

Web Sculpt

Samuel Walls (CBA '27)

Web Sculpt's Idea: Web Sculpt has revolutionized the web design process by seamlessly crafting websites for their clients while also offering expertise as dedicated business consultants.