



DREAM TEAM ENGINEERING

SPONSORSHIP PACKET

DREAM TEAM ENGINEERING AT THE UNIVERSITY OF FLORIDA

2023

-

2024



ABOUT US

Dream Team Engineering is a non-profit organization that brings together engineering and non-engineering students to create innovative technologies for the benefit of patients at UF Health Shands, the Gainesville community, and beyond. We collaborate with healthcare professionals to develop engineering devices that improve the patient experience and overall healthcare. Our team consists of four branches: a design branch focused on creating educational devices using 3D modeling, a software engineering branch that develops user-friendly medical applications, a research branch that evaluates the effectiveness of our projects in hospitals and a STEM special events team that goes into the hospital to host science-based educational activities for pediatric patients..



DESIGN



Dream Team Engineering's design branch is made up of a multitude of teams that focus on using 3D-modeling skills to fulfill healthcare needs. For example, our Surgical team is currently working on creating surgical models of kidneys, gallbladders, and their surrounding organs for surgical residents to practice on.

SOFTWARE

Our software development division is focused on producing innovative technologies for Shands Hospital through a combination of web apps, mobile apps, VR games, and software-controlled hardware. For example, our DiabetesVR team is working to create a virtual reality simulation that teaches users with diabetes about appropriate food nutrition.



RESEARCH



Dream Team Engineering's Research Team tests the usability, scope, and impact of DTE projects. Our teams use a combination of dry lab techniques, including data acquisition through patient surveys, professional writing, and statistical analysis to determine the efficacy of DTE projects being used within the hospital.

STEM SPECIAL EVENTS

The STEM Special Events Team volunteers at Shands Children's Hospital and in the Gainesville community to teach science through fun and interactive activities. Team members directly volunteer inside Shands Hospital, and focus on community outreach opportunities by executing science-based learning activities with local organizations and schools.



TO LEARN MORE ABOUT THE REST OF OUR TEAMS, PLEASE VISIT OUR WEBSITE:

WWW.UFDREAMTEAMENG.ORG

Completed Projects

SURTURINGVR



SuturingVR is an interactive virtual reality simulation that is used as a form of distraction-based therapy. This application aims to reduce pain and anxiety levels in patients without the use of standard pharmaceuticals by leveraging high levels of audiovisual immersion. Today, it's being used 3-7 times a week in the Oncology and Anesthesiology divisions of the UF Shands Hospital.

MODEL MRI

The MRI team works alongside the child life specialists of Shands to design a smaller scale MRI machine that will replicate the sounds and bed movements of an MRI machine. Having this smaller replica allows children to experience the sounds and movements of an MRI before they go through the real procedure. This experience alleviates stress and reduces fear in children by setting clear expectations.



MILK BANK

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Donor ID	3054	Fat	3.63	Donor ID	3118	Fat	3
		Pro	1.52			Pro	1.5
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		Vol	182			Vol	182
Donor ID	3106	Fat	3.88	Donor ID	2883	Fat	3.68
		Pro	1.29			Pro	0.88
		Lact	7.45			Lact	7.2
Deposit ID	50523 am	Cal	21.65	Deposit ID	51708 am	Cal	7
		Vol	251.0			Vol	
Donor ID	2875	Fat	2.84			Pro	0.8

Dream Team Engineering worked alongside Mothers' Milkbank of Florida to develop a website that eases the breast milk donation process. Our website will replace and optimize manual calculation of breast milk nutrient combinations. Today, Florida Milk Bank is consistently using our web app and is advocating for its implementation in other milk banks across the country.

WHY SPONSOR US?

ANY MONEY DONATED TO DREAM TEAM ENGINEERING WILL DIRECTLY FUND OUR ONGOING PROJECTS. OUR 2023-2024 BUDGET IS SHOWN BELOW FOR A BREAKDOWN OF WHAT SPECIFICALLY THE MONEY WILL GO TOWARD.

2023-2024 BUDGET

CATEGORY	ESTIMATED BUDGET
STEM SPECIAL EVENTS	
3D PRINTING FILAMENT	\$200.00
SCHOOL OUTREACH EVENTS	\$500.00
SPECIAL EVENT PATIENT PACKAGES	\$500.00
STEM DAY MATERIALS	\$300.00
STEM TOTAL	\$1,500.00
DREAM TEAM SOFTWARE ENGINEERING	
APP PUBLISHING LICENSES	\$200.00
VR HEADSETS	\$800.00
OTHER HARDWARE AND ACCESSORIES	\$400.00
SOFTWARE TOTAL	\$1,400.00
DESIGN	
3D PRINTING FILAMENT	\$1000.00
CASTING MATERIALS	\$300.00
PAINT SUPPLIES	\$50.00
MECHANICAL MATERIALS	\$500.00
ASSEMBLY COMPONENTS	\$250.00
DESIGN TOTAL	\$2,100.00
DESIGNATHON	
VENUE	\$1000.00
ADVERTISING MATERIALS	\$100.00
OTHER EVENT COSTS	\$300.00
DESIGNATHON TOTAL	\$1,400.00
GRAND TOTAL	\$6,400.00

SPONSOR BENEFITS

DREAM TEAM ENGINEERING IS A 501(c)(3) NON-PROFIT ORGANIZATION AT THE UNIVERSITY OF FLORIDA FULL OF HIGHLY MOTIVATED STUDENTS. WITHOUT THE SUPPORT OF OUR SPONSORS WE WOULD NOT BE ABLE TO FUND OUR INCREDIBLE PROJECTS OR CREATE CONNECTIONS WITH COMPANIES. HERE ARE LEVELS OF SPONSORSHIP AND BENEFITS!

Level	Bronze	Silver	Gold	Diamond
Dollars per semester	\$300	\$400	\$500	\$700
Host an additional recruitment event through DTE	✓	✓	✓	✓
Spot on DTE's website and merchandise		✓	✓	✓
Access to member resume bank			✓	✓
Co-host a General Body Meeting				✓

PAYMENT INFORMATION

DREAM TEAM ENGINEERING IS A 501(c)3 NON-PROFIT ORGANIZATION REGISTERED AT THE UNIVERSITY OF FLORIDA FOUNDATION. ALL DONATIONS MADE TO THE ORGANIZATION ARE TAX DEDUCTIBLE.

CHECKS CAN ALSO BE MADE OUT TO "DREAM TEAM ENGINEERING" AND MAILED TO THE ADDRESS:

Dream Team Engineering
655 Reitz Union Drive
GAINESVILLE, FL 32611-6131

If you have any questions, please do not hesitate to contact our Directors of Sponsorship at sponsorships@ufdreamteameng.org

Thank you for helping to transform lives!

CONNECT WITH US!



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