

THE DEPARTMENT OF
BIOMEDICAL ENGINEERING

20

23

DESIGN DAY

HAJIM QUAD
APRIL 28 • 12:30-3PM

SENIORS

ASSESSING WORKLOAD STRESS IN PEDS ICU

Client: Adam Dziorny, M.D., Ph.D., Department of Pediatrics and Biomedical Engineering, UR Medical Center

Team: Ibrahim Abdelwahab, Douglas Allen, Eunate Alzaga, Ignacio Rodriguez

BIODEGRADABLE LATERAL FLOW ASSAY

Client: Jeff Beard, Ph.D. Candidate, Biomedical Engineering, University of Rochester

Team: Katie Broun, Duy Doan, Claudia Garcia, Judy Monickaraj, Miguel Yakouma

CALIBRATION SYSTEM FOR PHOTODYNAMIC THERAPY

Client: Timothy Baran, Ph.D., Department of Imaging Sciences and the Institute of Optics, UR Medical Center

Team: Zaynab Dantsoho, Dinesh Sangadi, Riya Shah

HEMIBLOCK SPACER TO REMOVE BONE CEMENT

Client: Thomas Myers, M.D., M.P.T., Department of Orthopaedic Surgery, UR Medical Center

Team: Natnael Ayalew, Nathan Gehris, Edward Niles, Joshua Rainbolt, Faisal Reza

IMPROVED OSIA IMPLANTATION

Client: Ben Crane, M.D., Ph.D., Department of Otolaryngology, UR Medical Center

Team: Abdulrahman, Anna Guo, Anna Hazelwood, Ethan Hunt, Sam Kellner

IMPROVED INNATE LIGHT AVOIDANCE SHUTTLE BOX

Client: Michael Telias, Ph.D., Department of Ophthalmology and Neuroscience, UR Medical Center

Team: Karina Bridger, Sameer Jain, Christopher Lu, Aparajeeta Majumder

OBSTACLE VISUALIZATION FOR WHEELCHAIR USERS

Client: Matthew Oliveri

Team: Eli Lawrence, Kevin Lee, Diana Alcedo de Obarrio, Vahni Tagirisa, Victoria Warner

OPTICAL SCANNING FOR CHEST WALL ABNORMALITIES

Client: Nicole Wilson, M.D., Ph.D., Department of Surgery and Biomedical Engineering, UR Medical Center

Team: Abdalrahman AlMallahi, Timmarie Gallagher, Maysoon Harunani, Phuong Le, Rosemary MacLean, Ellie Richard

SURGICAL LOUPE IMPROVEMENTS

Client: Sara Neimanis, M.D., Department of Surgery, UR Medical Center

Team: Alyssa Hoogs, Andrew Moglianesi, Claude Nzabandora, Katia Iliza Teta

TISSUE SURROGATE FOR ANASTOMOSES & CLOSURES FOR LSI SOLUTIONS

Client: Benjamin Bosek, LSI Solutions

Team: Leah Badger, Matthew Consentino, Baoqi (Max) Liu, Kelsey Stites, Xiang Tang

UPPER EXTREMITY INSTRUMENT FOR TESTING SHOULDER PATIENTS

Client: Ram Haddas, Ph.D., M.B.A., Department of Orthopaedics Motion Analysis Laboratories, UR Medical Center

Team: Garrett Dietrich, Abbey Kampel, Mitchell Kershner, Lesley Leatherman, Carissa Minarovich, James Norberg

GRAD STUDENTS (CMTI)

AORTISEAL

Device: AortiSeal Valve Securement System

Team: Justin Jablonski, Dan Farchione

APEX ACCESS

Device: APEX ACCESS

Team: Delaney Martino, Morgan Bremer

HEMORRHAGE HEROES

Device: AneuAssist

Team: Zachary Muench, Melisanda Feliz

NEUROSONIC

Device: The NeuroSonic Headset

Team: Jack Bates, Kee Yoon Bark

PEHR MEDICAL

Device: NeoMesh

Team: (ApiJect Scholars): John Moyer,
Mariana Aviles-Jubis, Terra Spurgeon, Abdullah Abuomar

RESTABLE

Device: WedgeWise Clamp

Team: Connor Apa, Helen Shammas

SIMPLIFY SCOLIOSIS

Device: Skolio Mount

Team: (ApiJect Scholars): Reshul Narhari, Stella Nantale

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