



Fourth Year Capstone Project Fair

March 17, 2023 from 1:30pm - 4:00pm

Vote for your favourite project visit vote.sce.carleton.ca

| Group | Project Title | Group | Project Title |
|--------------|---------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------|
| 2 | Real-time Patient Monitoring App for the CHEO Neonatal Patient Transport Team | 35 | Pediatric Laparoscopic Surgery Simulator |
| 4 | Emergency GPS Tracker | 36 | Activity of Daily Living Assessment - Stove Use |
| 6 | Come and Chat (C&C) | 37 | SLAM Robot |
| 7 | Simulated Autonomous Vehicle | 44 | Ground Vibration Simulator for Investigating Vibration Effects on the Development of Turtle Eggs |
| 11 | The Back-off Tailgate Detector & Repulser | 45 | SafeWalk LTE Controlled Drone |
| 14 | IoT for Smart Urban Gardening and Farming | 46 | Autonomous Cart |
| 15 | Vision-Based Control for Robotics | 49 | Visualizing Blood Pressure Data |
| 16 | Tissue Engineering? Building a Low-Cost 3D-Bioprinter | 50 | A Web-based Simulation Platform |
| 17 | Vision-Based Control for Robotics, Group 2 | 51 | Real-time Pain Threshold Evaluation Instrument |
| 18 | Haptic Pen: A Tactile Feedback Stylus for Augmented Reality in Medical Training | 52 | AV: Yellow means go faster! Intersection control and safety |
| 19 | Mail-Delivery Robot in Carleton | 53 | Connecting Health Data from iPad to a Large Display |
| 20 | Virtual Reality (VR) Platform for Remote Monitoring and Collaboration | 54 | Simulator of Organs Biomechanics for Tissue Engineering Applications |
| 21 | EcosySTEM: a Webplatform for Connecting Women to STEM Support Networks | 57 | AV: Stay in your lane! Lane keeping |
| 23 | AV: Pedestrian Behaviour Prediction | 59 | Biomedical Imaging Visualization, Classification and Analysis Toolbox |
| 30 | QuizMI: A Web Application for Educational Quizzes | 62 | Autonomous Cart |
| 31 | Design and Development of Multi Degree of Freedom Haptic Device | 69 | AV: Central Embedded System Controller and Management |
| 32 | AV: Potholes, Barricades and Cones on My! | 72 | Application of Sensor Networks to Agriculture |
| 33 | Smart Rollator | | |

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