

CENTRE FOR DIGITAL IMAGING RESEARCH AND DEVELOPMENT (CDRIN)

Proud member of
Tech-Accès Canada



CDRIN
CENTRE DE DÉVELOPPEMENT
ET DE RECHERCHE
EN IMAGERIE NUMÉRIQUE



SERVICES OFFERED IN:

French



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Matane, Québec G4W 0E1



WEBSITE:

<http://cdrin.com>



POINT OF CONTACT:

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CDRIN is a Technology Access Centre conducting digital-imaging research and technology transfer with small, medium-sized and large companies, particularly in the areas of motion capture and augmented reality. CDRIN also addresses the need for skills and workforce development in this constantly evolving sector.

AREAS OF INNOVATION EXPERTISE

- Motion capture
- 2D and 3D animation
- Special effects (VFX)
- Video games
- Mobile applications
- 3D digitization

Affiliated with Cégep de Matane



TECHNICAL AND BUSINESS SERVICES

- Concept ideation & design review
- Design Services
- Digital Media & Web Solutions
- Field trials/Simulation
- Literature reviews
- Sample analysis & testing
- Technology & workflow consultation



APPLIED RESEARCH AND DEVELOPMENT

- 3D design & rapid Prototyping
- Automation
- Concept validation
- Cost avoidance
- Process optimization
- Product Design & Development
- Product Re-design & Improvement
- Provincial and federal grant proposal development
- Reverse Engineering
- Technology validation and transfer



TRAINING

- Corporate on-site & in-house training
- Interactive Workshop Sessions



TECHNOLOGY DIFFUSION

- Customized technology demonstrations
- Networking events
- Open houses - Testing facility & personnel
- Rental of space & equipment



INVENTORY OF SPECIALIZED EQUIPMENT

- 3D scanner
 - Viuscan 3D laser by Creaform
 - Photogrammetry system featuring Canon DSLR cameras and Raspberry Pi
- Depth-map cameras
 - 2 Microsoft Kinect sensors
 - 2 Microsoft Kinect One sensors
 - Asus Xtion Pro Live sensor
 - Carmine PrimeSense sensor
- Motion capture systems using reflective markers
 - Vicon T160 system, featuring 72 16-megapixel cameras
 - Vicon Bonita 3 system, featuring 8 0.3-megapixel cameras

- Vicon Bonito 10 system, featuring 8 1-megapixel cameras
- 2 wireless virtual cameras for cinematography of motion capture scenes
- Motion capture system using active markers
 - BlackTrax development set, featuring 4 OptiTrack Flex 3 USB cameras
 - Motion capture system without markers
 - Organic Motion system, featuring 18 video cameras
- Other motion capture systems
 - SPS 1000 radio-frequency positioning system by Quattrium
 - Gypsy 7 exoskeleton by Animazoo
 - IGS-190 inertial gyroscopy system from Animazoo, using 19 IMUs
 - Perception Neuron
 - Leap Motion
 - Thalmic Labs MYO
- Virtual reality headsets
 - Oculus Rift
 - HTC Vive
 - Samsung Gear VR



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