



Your Electronic Turnkey Solutions



CHECK OUR COMPETENCES CHOOSE YOUR INSERTION POINT

Narvi selected Companies work together in order to grant their Customers tailor made solutions for complex systems engineering, development and manufacturing.

Organizational Chart



John Durst

President of US Division



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President of Canadian Division



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Transportation - Smart Cities



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Caroline Provost, Eng.

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Head of department, Eng. Management
BBA, Canada



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Graham Bard

Operations Manager
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The Consortium

Narvi is the name of a new satellite, one of Saturn's moons...

Narvi is a marketing consortium composed of international partners in order to address emerging needs in North America as part of the Electric & Smart Transportation, Rail Transportation, Energy as well as the Smart City/HVAC and Medical.

Narvi Consortium is a world leader in the industrialization of integrated electronic and electromechanical systems for the industries previously named.

Our positioning in North America (Canada, United States) and Europe, will meet the requirements of support or local content, while bringing together the complementary know-how of each partner. This will also allow European customers to enter North America through local expertise.

Mission:

Our mission is to enable customers to focus on their core competencies by outsourcing to our excellent multidisciplinary services.

Vision:

To be a world class value-added partner for our customers

Values:

Progress - Excellence - Flexibility

Consortium Partners



systems | services | solutions



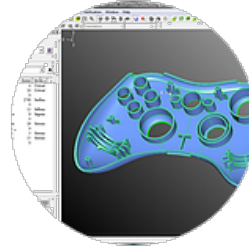
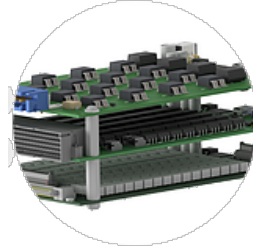
To assist the consortium with consulting services in
engineering, project management and environment:



Engineering Services

Transportation & Smart Cities

<https://www.hypertronic.ca/>



Define

- Feasibility Study
- Proof Of Concept
- System Design
- Project Planning
- Requirements Management

Design

- Electronics
- Firmware, Software
- Mechanical Design
- Industrial Design

Industrialize

- Design for Manufacturability (DFM)
- Design for Testability (DFT)
- Cost Reduction
- Configuration Management

Test

- Qualification Testing
- Production Testing
- Compliance Testing
- Test Equipment Design

Support

- Issue Tracking
- Training
- Commissioning on-site

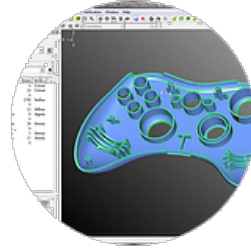
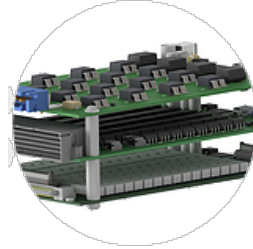
Major Achievements

- Door Control
- Monitoring Systems
- Low Speed Detection
- Lighting
- HVAC
- Inverters
- Power Distribution
- BTE
- Electrical Bus Design
- CAN Bus & Ground Characterization
- Bike Rental System
- Etc.

Engineering Services

Instrumentation & IOT Services

<http://www.explora-tech.com/>



Industrial Design

- Design of waterproof and rugged products
- Injection molding and overmolding
- Touch screen technology integration
- Silicone keypad design

Electronic Engineering

- Advanced CPU based design,
- DSP and microcontroller for operating system integration.
- Advanced FPGA based design (VHDL).
- DFM, DFT, DFS
- Custom LCD/touch screen design and integration.
- High speed and analog circuits design.
- Design for EMI/ESD constraints.
- Certification expertise (FCC, CE, UL, CSA, WEEE, etc).

PCB Cad and Layout

- Flexible circuits (PCB-Flex), surface mount (SMT) and through-hole circuits designs.
- Complete 3D modeling of circuits and components to allow high density designs within complex mechanical products.
- Components placement and circuit routing according to IPC standards.
- Electromagnetic Interference and Radio Frequency Interference constraints (EMI/RFI).
- Complex mechanical and environmental constraints.

Software Development

- BSP development for Windows CE, Linux, Android, etc.
- Low level software development and firmware interface.
- PC software application development.
- Driver development for most peripherals (Ethernet, LCD, USB, etc.)
- Firmware development and embedded software development.

Harnesses Services & Electromechanical Assembly



<https://www.aim-mfg.com/>

All wire harness assemblies are manufactured to meet specifications on customer supplied drawings or prints

- Custom Kitting Solutions will allow you to:
Save Time and Resources, Reduce Waste and Save Space
- Wire Harnessing, Cable, Component Prep and complete Value-Added Assembly
- Utilizing Schleuniger, Carpenter, Komax –Wire Processing Equipment
- Amp, Molex, Deutsch, JST, Burndy, Packard, Delphi –Application Equipment
- Cablescon, Dynalab, Cirris, DIT-MCO –Q.A. Equipment

Box Built and electrical assembly services

- Our facilities include staff and production workers trained to produce assemblies to UL 508A.
- Custom electromechanical assembly services such as: Control Panels, Faceplates, Motor Termination
- Hi-Reliability experienced and dedicated team
- ISO 9001:2015 Certified,
- Inspect to IPC/WHMA-A-620 quality guidelines
- IPC 610/620 Certified Technicians
- ITAR Registered
- Specialty: Wire, Multi-Conductor cable assemblies

Experience

- Proficient in Automotive taping, solder sleeve application, and wire marking utilizing inkjet or hot stamping
- Braiding capability to 80 feet length, 5 inch O.D.
- Battery cable production
- Wire harnesses, subassemblies and control panels
- Discrete wire harnessing
- Transit
- Specializing in custom harness assemblies for industrial OEMs

Electronic System Box Built & Circuit Board Manufacturing



<https://www.m2selectronics.com>

Manufacturing subsets and integration of electronic services and electromechanical assemblies

- Box Built and electronical assembly services
- Our facilities includes staff and production workers trained to produce printed circuit boards assemblies according to IPC610 & 620

Printed circuit board assembly

- Complete range of surface mount assembly lines (SMT) that allow us to process your small or large production.

Test Strategies

Product Lifecycle

Major Achievements

- Since more than 35 years, Public Address General Alarm (PA/GA) & peripherals, Time synchronization transmitters for hazardous sites (Utilities, Oil&gaz, Mines)
- Since more than 30 years, high-end connected thermostats, power board and control PCBA for HVAC residential & commercial
- Since more than 20 years, high-level hospital bed controllers & sterilizer electronic sub-assemblies for medical applications
- Since more than 15 years, more than 65 projects (door controllers, BTE, etc.) delivered to major transportation OEMs
- Since more than 8 years, large mass production of control boards for air systems in the automotive industry

Rail Transportation



- Door Control
- TCMS System
- Monitoring Systems
- High-voltage switch management in electrical substations
- Gateway
- Low Speed Detection
- Lighting system
- HVAC system
- Inverters
- Power Distribution
- Bench Test Equipment

North America Business Units

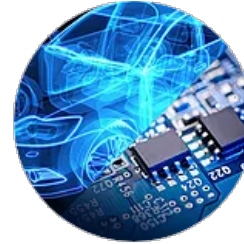
Specialized workforce:
>400 persons



To assist the consortium with consulting
services in engineering, project
management and environment:



Automotive / Electric & Smart Transportation



Manufacturing subsets and integration of electronic services & electromechanical assemblies

Wire harnesses, sub assemblies and control panels

- EV Charging Station
- Advanced Driver Assistance Systems (ADAS)
 - Collision avoidance, Presence detection
 - Object profiling & classification
 - Tracking & speed, Distance measurements
 - Gesture recognition
- Engine air flow control
- Vehicle management unit
- Weighing systems

North America Business Units

Specialized workforce:
>400 persons



To assist the consortium with consulting services in engineering, project management and environment:



Smart Cities / HVAC



Smart cities

IoT Services : OTA updates & Mobile apps (Android and IOS)

Services from design to manufacturing and integration of turnkey electronic controllers.

Power board and controller for: Air exchangers, Kitchen hoods, Furnaces, Humidifiers and dehumidifiers, Air conditioners, Heat pumps for residential and commercial applications

Personalized solution platforms (Smart thermostats, HVAC controllers, equipment power units).

Air quality Thermostats

- Wireless management (Bluetooth, ZigBee, Z-Wave, Wi-Fi)
- Environment management (BACnet, Lonworks, Modbus)

Power Board / Controllers

North America Business Units

Specialized workforce:
>250 persons



Energy



Services from design to commissioning including manufacturing and integration of electronic systems.

Automated electronic systems for industrial security management operations in sensitive environments.

- Public Address and General Alarm (PAGA)
- FPGA System Controller | IO Circuit
- Interface Communication | Interface Master Slave
- Amplifier Support | Automatic switching amplifier
- Versions 48VDC, 129VDC, 115VAC, 230VAC
- CSA / UL / ATEX / NERC compliant

North America Business Units

Specialized workforce:
>500 persons



Medical



Services from design, manufacturing and integration of turnkey electronic controllers in the medical field.

- Tests equipment
- Bed controllers
- Sterilizer controllers
- Diagnostic equipments
- Imaging devices
- Monitoring devices

North America Business Units

Specialized workforce:
>250 persons



PA/GA Systems



Product

<https://www.m2selectronics.com>

Services from design to commissioning including manufacturing and integration of turnkey electronic systems.

- Design to meet essential safety requirements
- Influence on existing infrastructure
- Remote management
- Economic system and maintenance management
- Commissioning and customer staff training

Automated electronic systems for industrial security management operations in sensitive environments.

- Public Address and General Alarm (PAGA)

Services

<https://www.bba.ca/>

Commissioning and Field Services

- Development and management of commissioning and operational readiness plans
- Testing and commissioning services
- Energization and start-up
- Development of preventive maintenance plans
- Emergency response and repair
- Brownfield upgrade, light construction, and electrical facilities
- Training for operational and maintenance staff

HVAC Thermostats



<https://www.m2selectronics.com>

We have the thermostats that meet your needs, whether commercial or residential.

[Jump to catalog](#)



[Use our
thermostats
selection chart](#)

Model	Color	Display				Protocol
		Color	Size	Resolution	Resolution	
comfarto	1500	15.1"	15.1"	15.1"	15.1"	1
comfarto	1500	15.1"	15.1"	15.1"	15.1"	2
prestigio	1500	15.1"	15.1"	15.1"	15.1"	1
prestigio	1500	15.1"	15.1"	15.1"	15.1"	2
espresso	1500	15.1"	15.1"	15.1"	15.1"	1
espresso	1500	15.1"	15.1"	15.1"	15.1"	2
smartio	1500	15.1"	15.1"	15.1"	15.1"	1
smartio	1500	15.1"	15.1"	15.1"	15.1"	2