NEURONiC WORKS

CUSTOM ELECTRONIC PRODUCT DEVELOPMENT

Who we are

NeuronicWorks Inc. is a one-stop engineering product development firm based in Toronto that specializes in designing and developing custom electronic products.

Mission

We strive to provide the best design experience, to empower innovators creativity, while we handle the technical side.

What we do

NeuronicWorks provides end-to-end design services in the areas of: system level design, industrial design, hardware design, and embedded firmware and software development for visionary entrepreneurs seeking to create a reliable product while keeping the process cost-effective. From concept to production, we use design for manufacturing methodologies to build state-of-the art electronic systems that meet the increasing demands of today's technological world.

Our Process

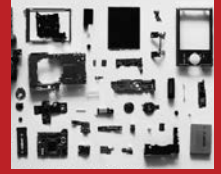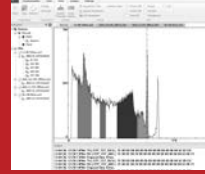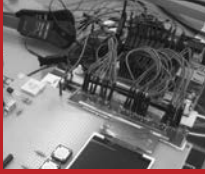| **concept**	**design**	**engineering**	**collaboration**	**product**	**support**
Ideate with our experts, discuss your next big idea.	Our engineers architect your product moving from the idea to an actionable plan.	We are building the product using cutting-edge technologies.	We collaborate with you to ensure transparency, keeping you on the pulse of everything.	We deliver on time a product you can present and sell.	We are with you all the way, to support you and your clients.

CORE COMPETENCIES

Product Development   **Hardware Design**   **Firmware Development**   **Industrial and Mechanical Design**   **Software Development**   **Test Engineering and Manufacturing**

Hardware Design:

- PCB design and assembly;
- Wireless communications: BT, WIFI, LORA, NFC, proprietary ISM, GSM/GPRS, GPS;
- Wireless charging;
- NFC, BT, WIFI RF antenna design;
- Complex distributed systems;
- All types of sensors.

Product Development:

- Research and analysis;
- New product conceptualization;
- Solution ideation;
- System design;
- Prototyping;
- Branding.

Software Development

- Web, App, Mobile App;
- API development;
- UX/UI;
- Wireframing;
- Prototyping and testing;
- Languages: HTML / CSS / SCSS/ JavaScript / JQuery / AJAX / XML / Java/ C#/ Android / iOS / Angular/ React / VUE / SQL / MySQL / SQLite/ MSSQL / MSSQLServer / PHP/ Python / Perl / Ruby / RubyOnRails / Bash.

Firmware Development:

- Embedded System Design (bare-metal and RTOS);
- Real time applications;
- Data processing and DSP algorithms;
- Graphic user implementations with resistive and capacitive touchscreens;
- Communication: UART, I2C, SPI, I2S, CAN, ZigBee, Thread, BT, WiFi, NFC, LORA, GPRS, satellite;
- Device driver development;
- FPGA VHDL and Verilog design.

Industrial and Mechanical Design:

- Prototyping;
- Graphic design;
- Industrial design;
- 3D modeling;
- 3D printing.

Test Engineering and Manufacturing

- Regulatory aspects, certification; and patenting intellectual property;
- Component sourcing and purchasing;
- Manufacturing.

OUR EXPERTISE

Industries we worked in

- ESports (Gaming);
- Agricultural;
- Printing;
- Building automation and control;
- Wearables: electronic wallet, personal security, sport wearables, night wrist light;

- 3D scanning and modeling
- Entertainment;
- Security;
- Transportation;
- Retail;
- Medical;
- Manufacturing.

We are interested to work with:

- Artificial Intelligence;
- Robotics & UAV;
- AR & VR;
- IoT & IIoT (Industrial Internet of Things);
- IoB.

Why should you trust us?

- Professional Engineers of Ontario certification;
- Analog Devices, Microchip and Arrow design partner house;
- Over 150 successfully completed projects;
- More than 300 years of combined experience;
- Team of 31 employees;
- 12 industries disrupted with innovative technology;
- Average project completion in 6 months.

What can you expect?

- Total confidentiality;
- Total transparency;
- You are in control of the design process;
- You own the IP.

Contact us

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