

Nova Engineering, Inc.

Innovative Wireless + Digital Communication Solutions



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Corporate Summary:

Nova Engineering is an applied wireless communications technology company with an impressive customer list.

Corporate Profile:

Nova Engineering uniquely combines RF, digital and real-time embedded software design into communication systems for the real world. Nova Engineering supports the total development cycle from systems engineering, analysis and computer simulation to printed circuit board design, prototyping, production, and automated testing.

Unique Technologies:

Nova Engineering is a leader in areas such as:

- Mobile ad hoc wireless networks
- Low-power, compact RF hardware
- Software defined radio development
- Spectrally efficient waveforms
- Embedded signal processing
- Encryption

Product Summary:

Wireless Data Devices

NovaRoam™ Wireless IP Router for Mobile Ad Hoc Networking

- Long-range wireless ad hoc mesh networks for stationary and mobile applications

Hypermod™ Airborne telemetry

- Airborne telemetry transmitters and demodulators for better detection efficiency and increased spectral efficiency

STAR™ Sensor Comms

- Low-power COTS unattended ground sensor (UGS) communications equipment

Communication Development Tools

NovaSource™ RF Signal Source

- Compact, programmable synthesized RF signal generators

Constellation™ Development System

- Versatile PC/104 boards for Altera PLDs (Programmable Logic Devices)

IP Cores

- Algorithms and functional blocks for custom communication PLD & ASIC designs

Design Service Groups:

- Advanced Waveforms
- Sensor Communications
- Telemetry Systems
- Wireless Networking

Corporate Management:

- President - Don Boyd
- CTO - Mark Dapper
- CFO - Jeff Wyatt
- VP - Kevin Bobier
- Director, Marketing & Sales - Michael Rauf
- Director, Product Engineering - Dave Jordan
- Director, Advanced Waveforms - Steve Olenick
- Director, Wireless Networking - Paul Krotchen

Corporate Structure:

100% employee-owned with no major shareholder or outside investment

Employees: 69 (June 2002)

Engineers: 33 (June 2002)

Incorporated: 1989

Headquarters: Cincinnati, Ohio, USA

Manufacturing: Primarily in-house

Brief History:

1989 – 1992

- Founded in December 1989
- Consulting services in communications and signal processing
- System design, analysis and computer simulation

1992 - 1998

- US Army CECOM development contract in May 1992
- Added system, RF, digital, and real-time embedded software capability
- Customer satisfaction spurred exponential growth
- Company grew from 2 employees to 42

1998 - Present

- Focus on core technologies
- Expanded off-the-shelf product lines
 - Wireless Data (NovaRoam, STAR, Hypermod)
 - Development Tools (NovaSource, Constellation, IP Cores, HDR LOS Toolkit)

- Further growth of customer base for communications system development
- Winner of Tibbetts Award for Small Business Innovation Research (SBIR) Excellence

Sample List of Customers:

- ADC
Telecommunications
- BAE
- Battelle
- Boeing
- Bosch
- Cincinnati
Electronics /
Canadian Marconi
- Cisco Systems
- Compaq
- GE/ Harmon
- GEC-Marconi
Electronic Systems
- General Dynamics
- Georgia Tech
- Harris Corporation
- Hewlett Packard
- Honeywell Space
Systems
- Hughes Aircraft
- Ibiqity Digital
- ITT Industries
- Jet Propulsion
Laboratory
- Johnson Controls
- L-3 Communications
- Lawrence Livermore
National Labs
- Leigh Aerosystems
- Litton Advanced
Systems
- Lockheed Martin
- Logitech
- Loral
- Los Alamos National
Laboratory
- Lucent Technologies
- Metric Systems
- Motorola
- NASA
- National Instruments
- Naval Air Systems
Command,
Arlington, VA
- Naval Research
Laboratory,
Washington, D.C.
- Naval Undersea
Warfare Division,
Newport, RI
- Naval Command,
Control and Ocean
Surveillance Center
(NCCOSC) Naval
Research and
Development
(NRaD), San Diego,
CA
- Neoprobe
- Northrop Grumman
- Powerwave
Technologies
- Raytheon
- Rockwell
Automation
- Rockwell Collins
Avionics
- SAIC
- Texas Instruments
- Trimble Navigation
- TRW
- US Air Force
Electronics Systems
Center, Hanscom
AFB, MA
- US Air Force, AFMC
Rome Laboratory,
Rome, NY
- US Army
Communications
Electronics
Command
(CECOM), Fort
Monmouth, NJ
- US Army Missile
Command,
Redstone Arsenal,
AL
- US Army Space &
Strategic Defense
Command,
Huntsville, AL
- US Marine Corps
System Command,
Quantico, VA
- Watkins-Johnson
- WaveRider
- Xetron / Northrop
Grumman

Latest News:

October 2002 - \$35M TRSS (Tactical Remote Sensor System) Navy Award

Nova Engineering, Cincinnati is being awarded an estimated \$35,543,362 fixed-price, indefinite-quantity and indefinite-delivery contract for a maximum 300 hand held programmer monitors and 1125 unattended miniaturized ground sensors, images and associated line items. Work will be performed in Cincinnati and is to be completed by September 2007. Contract funds in the amount of \$1,000,000 will expire at the end of the current fiscal year. The contract was competitively procured and advertised on the Internet, with two offers received. The Naval Surface Warfare Center, Crane Division, Crane, Ind., is the contracting activity (N00164-02-D-8503).

From:

http://www.defenselink.mil/news/Sep2002/c09262002_ct488-02.html

- and -

http://www.janes.com/business/procurement/dod_contracts/dod2002/dod20020926_005.shtml

Nova Engineering is a wireless development and manufacturing firm in the Cincinnati area. We are quickly gaining national and international recognition in the "wireless world" for our leading-edge data communication developments and niche products. Nova Engineering is a leader in areas such as:

- Mobile Ad-hoc Wireless Networks
- Unattended Ground Sensor Communications
- OFDM (Orthogonal frequency-division multiplexing) Technology
- Exotic Modem and Waveform Development
- Advanced Telemetry Products
- Communication Development Tools

While the technical aspects of our company are nothing short of stunning, the corporate structure and vision are truly unique. The 13-year old company is wholly owned by its 75 employees with no major shareholder. This creates a true team-spirited environment which benefits not only the employee-owners, but Nova's customers as well.