EXPERIENCE: Present customers are aircraft operators in North and South America. Discussions are currently being held with a number of foreign governments with view to sale of Turbo Orlik.

KEYWORDS: Aircraft; Trainer (Aircraft); Modification (Aircraft); Medical Evacuation Installations; R&O (Aircraft); Re-Engining (DHC-2 & 3).

REVISED: February 88

AIT ADVANCED INFORMATION TECHNOLOGIES

ADDRESS: AIT Building
9 Auriga Drive
Nepean, Ontario, Canada
K2E 7T9

CONTACT: Mr Don McKinnon, Director, Technology Applications – (613) 226-7800

HISTORY: AIT Advanced Information Technologies Corp is a Canadian-owned electronic systems company founded in 1986. It was formerly known as Hitech Canada Ltd, founded in 1973 as an Ottawa based computer hardware and software consulting firm.

CAPABILITY: AIT Corporation Products Division is primarily involved in the design and manufacture of security document issuance and inspection systems based upon optical character recognition technologies. Their machine-readable passport systems are in use by government agencies in Canada, the US, Australia, the UK and Finland. They also design and manufacture word counters for translation bureau billing, and typescript page readers.

AIT Corporation Systems Division is involved in civilian and military radar systems clutter analyses and simulation studies, and is the prime contractor for development of a Wind-Imaging Interferometer (WINDII) which will remotely sense the temperature and velocity of selected ionic species in the upper atmosphere from its station aboard NASA's Upper Atmosphere Research Satellite (UARS) in the early 1990's. Their Network Management System is used by all Canadian telephone operating companies and their major clients to monitor and maintain public data communications facilities from coast-to-coast. They are developing an expert correspondence entry and filing system.

Their capabilities cover systems analysis, electrical, mechanical, and optical engineering, software design and development, systems project management, systems integration and verification, product assurance (including reliability and maintainability analysis), production, quality assurance, documentation, training, installation and service.

AVERAGE WORK FORCE: PhD – 2
Engineers – 47
Others – 43

GROSS SALES: 1987 – $ 7.7M
1988 – $12.0M (Est'd)

PLANT SIZE: 28,000 Sq Ft

EQUIPMENT: In-house computer systems include – Apple MacIntosh, DEC PDP, an Intel 80386 PC, variants of the IBM PC/AT and Personal System/2 Model 30s and Model 60s.

EXPERIENCE: AIT's present foreign customers include – Computer Sciences Corp for the US Immigration & Naturalization Service, the Bank of Finland Security Printing House, and Software Sciences Ltd of England for the UK home office. Present domestic customers include – the Canadian federal government departments of Communications, External Affairs, National Defence, National Research Council (Space Research), and Transport (Air Traffic Control & Coast Guard).

KEYWORDS: Optical Character Recognition; Data Acquisition; Data Processing; Systems Analysis; Network Management Systems; Atmospheric Monitoring; Satellite Subsystems; Radar Systems Analysis; ATC; Vehicle Training Simulators; Secure Identity Documents; Radar Signature Analysis; Expert Systems; Remote Sensing; Space Mission Planning; Program Management; Systems Integration.

REVISED: January 88

ALBERTA LASER INSTITUTE

ADDRESS: 9924, 45th Avenue
Edmonton, Alberta, Canada
T6E 5J1

CONTACT: Dr V E Merchant, Program Director – (403) 436-9750

HISTORY: The Alberta Laser Institute was founded in 1985 as a wholly owned subsidiary of the University of Alberta in Edmonton. It has received grant money from the Government of Alberta and from the Department of Regional Industrial Expansion of the Government of Canada. The mandate of the institute is to encourage the use of lasers in Alberta and Western Canadian industry.

CAPABILITY: The Alberta Laser Institute offers a variety of material processing applications for industry. They include laser welding heat treating, cutting and overlaying or cladding. The institute offers the services of job shop work, development of materials processing procedures, evaluation of technical and economic feasibility of laser processing, and design and fabrication of specialized laser processing equipment. The Alberta Laser Institute has the capability to design, prototype, and manufacture specialized sensors for on-line analysis of industrial products and processes.

AVERAGE WORK FORCE: Phds – 2
Engineers – 2
Others – 5

GROSS SALES: FY 1987 – $125,000

PLANT SIZE: 7,500 Sq FT

EQUIPMENT: Equipment includes: CE-5000 LASER and LPC-8 five axis CNC workstation from Combustion Engineering Industrial Lasers, Somerville, MA.; CE-1000 LASER with a flat-bed CNC Workstation; Computer Aided Design workstation hard-linked to laser processing stations; Zimmer 600/10 Proximeter for in-station applications; and HP Laser Measurement System.

EXPERIENCE: The Alberta Laser Institute has been involved in:

- The manufacture of metal optics for Lumonics Inc, Leitz Canada Ltd and Applied Physics Specialties Ltd.
- Applying corrosion resistant coatings for a variety of manufacturers of oil field equipment.
- Heat treating feasibility study for Atomic Energy of Canada Ltd.
- Feasibility study and consulting for a variety of manufacturing industries investigating the use of lasers in their operations.

KEYWORDS: Lasers; Precision Parts; Welding; Heat Treating; Weld Overlaying; Cladding; Cutting; Sensors; Inspection; Corrosion Control; Optical Systems; Quality Assurance Instrumentation.

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ALBERTA RESEARCH COUNCIL

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250 Karl Clark Road
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T6H 5X2

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