

Richard Charles Nelson Resume 2025

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Location: Pincourt, Quebec, Canada

Summary:

Visionary businessman and inventor of SolaRoof Technology, with a proven track record of developing and licensing innovative technologies, particularly in sustainable agriculture and building systems. Co-founder of PyraPOD Global Inc, creating SolaRoof applications, including the PyraPOD, a breakthrough in family food security and community food sovereignty. Extensive experience in R&D, international collaboration, and securing significant investments. Portfolio of granted patents across 30 countries.

Professional Experience:

Founder & President, SolaRoof (2000 – Present)

- Pioneered SolaRoof technology, a groundbreaking approach to sustainable agriculture and vertical greenhouse systems.
- Dedicated patents to a Creative Commons Public License, fostering global collaboration and accessibility.
- Leading a global community of "CoMissioners" to advance PyraPOD solutions.
- Currently launching a global crowdfunding campaign with the Family Fresh Food Bank to accelerate PyraPOD adoption.

Co-Founder & CTO, PyraPOD Global Inc (2012 – Present)

- Establishing a global licensee network for SolaRoof technology delivered by PyraPOD products.
- Managing international commercialization in Norway, UK, Canada, USA, Iceland, China, and Belgium, including investments exceeding \$10M.

Owner & President, THERMACTIVE SYSTEMS CORPORATION LTD (1980 – 2000)

- Directed R&D contracts for government, university, and private sector clients.
- Provided expert consulting in agricultural technology, greenhouse operations, and plant biotechnology.
- Conducted research on greenhouse materials and crop production in diverse climates.

Sole General Partner, THERMACTIVE R&D PROGRAM (1982 – 1990)

- Oversaw a Quebec Limited Partnership focused on advanced R&D, with expenditures exceeding \$30M CDN.

Key Achievements & Skills:

- **Innovation & Invention:** Developed and patented multiple groundbreaking technologies, including SolaRoof and dynamic liquid insulation systems.
- **Advanced Materials and Manufacturing Methods R&D:** Established International Interdisciplinary Innovation Consortia with companies including Dupont, Owens Corning, 3M, Hoechst, Bayer, Dow Corning, GE, Saint-Gobain, Norsk Hydro, Alcan, Canam, Birdair, and Chemfab.
- **Global Collaboration:** Led international teams and projects, fostering partnerships with government, university, and private sector organizations.
- **Strategic Leadership:** Founded and managed multiple ventures.
- **Fundraising & Investment:** Secured significant equity investments and negotiated corporate consortia.
- **Agricultural Technology:** Expertise in greenhouse operations, plant biotechnology, and sustainable agriculture.
- **Intellectual Property Management:** Secured and managed patents across 30 countries.

Patents Issued to Richard Nelson:

- Lightweight Construction System (US Patent 6,497,074)
- Dynamic Heating and Cooling of a Building Using Liquid Bubble (US Patent 6,575,234)
- Solar Roof Collector (US Patent 5,123,247)
- Replaceable Bubble Insulation System (US Patent 4,562,674)
- Canopy System for a Building Structure (US Patent 4,452,230)
- Process for Coating Material with Water Resistant Composition (US Patent 4,521,458)