Gerrit V. J. Newton

Personal Details

Surname:	Newton
Name:	Gerrit
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Nationality:	USA
Birth Date:	26 September 1964

Education

Sep 1982- May 1987	B.S. in Mechanical Engineering, Rice University, USA
Sep 1979- June 1982	Grimsley Senior High School, Greensboro, North Carolina, USA

Work Experience

Sep 2006- Dec 2017	Lely Industries, Maassluis Designed and redesigned a variety of components on the Lely milking robots, from the concept stage through detailed design to production release. My redesigns combined functional improvements with cost savings (25% in some cases) and ease of assembly. Developed a family of innovative snap connections for joining sheet metal and tube components without nuts and bolts. Initiated in-house training to help new hires become acquainted with the company more quickly and to introduce them to various engineering practices. Engaged colleagues in different departments to help. Projects include but not limited to: Cow routing gates, Milk jar cleaning system (patented), pneumatic teat cup tilting mechanism, vacuum valve, electromechanical steam generator. One patent.
Jan 2003- Sep 2006	Contracted work at various companies or looking for work. Notable projects: SKF, Nieuwegein – Design of the carriage of an operating room gantry robot. KH-Engineering, Amsterdam – Modeling of a satellite EMC test room for ESA in Catia V5 R10.
Jan 2001- Dec 2002	Multin Design & Development, Zoetermeer Conceptual and/or detailed design of a broad variety of machines and mechanisms, as protoypes and for series production, for different industrial applications in agriculture, foodstuffs, oil & gas, and other industries. Notable projects: Gas and oil fired greenhouse heaters. Inverted Turbine – a downhole hollow axle turbine generator, with an exchangable blade cartridge. Designed the housing and a very simple cartridge change mechanism. Switch for a package sorting machine. New method of foaming coffee for Senseo. A 100% PEEK hydraulic pressure measurement test bed for a stone sample. Frame for an automatic cow feeding robot.
Oct 1999 – Dec 2000	DaimlerChrysler, Sindelfingen, Germany Project Engineer Advanced Development Interiors/ Roof and Seat Systems Roof development project support. Patent granted for a panorama sunroof shading system.
Nov 1995 – Sep 1999	Recaro GmbH., Kirchheim/Teck, Germany Design Engineer: Designed the seat frame and adjustment mechanisms for a new truck seat (CATIA V4), for which I received 2 Patents. Design of other seat-related components.
Oct 1990 – Dec 1994	Schwab Technik GmbH., Munich, Germany Design Engineer: Design of prototype mechanisms and systems for the automobile industry, primarily auto sunroofs, electric windows, etc, with

	CATIA V4. Worked in an engineering team designing an innovative sheet metal folding roof for a convertible.
Feb 1989 – Sep 1990	Homelite Textron, Charlotte, North Carolina, USA Project Engineer: Responsible for the application of international standards in the design, testing, and certification of outdoor power equipment. (chain saws, lawn mowers, string trimmers, blowers, etc.) Manufacturing Engineer: Supervised production of blowers, pumps, and electric string trimmers.

Courses/ Abilities/ Languages

Courses

Sep 2014- Sep 2015	Spiritual Direction, Sustainable Faith, Inc. Two year training program to help people observe life-giving rhythms, nurture self-awareness and draw them toward healthy spiritual practices.
Nov 2017	Technical Creativity with TRIZ, Mikrocentrum, Eindhoven "An innovation methodology that uses a proven matrix of generic solutions to solve specific problems." -manufacturingterms.com

CAD and Computer skills

CAD	Creo Parametric, Catia V5 R10 en V4
Office	MS-Office: Excel, Word, PowerPoint

Languages

English	Native
Dutch	Fluent, spoken and written
German	Fluent, spoken and written
French	Conversational, spoken and written
Spanish	Basic

Interests

Newton Innovations (freelance work), improvisational theater, reading, psychology, weight training, travel.