

Daniel Calvo Camacho

Personal Information	Nationality: Costa Rican
Academic Background	<i>Eindhoven University of Technology (TU/e), The Netherlands</i> - Master's degree in Innovation Management. <i>Instituto Tecnológico de Costa Rica</i> - Licentiate Degree in Industrial Production Engineering
Certifications / Workshops	<i>MIT Sloan School of Management</i> – Professional Certificate in Management & Leadership <i>Instituto Tecnológico de Costa Rica</i> - Project Management Executive Program
Languages	▪ Spanish, native proficiency. ▪ English, professional proficiency. ▪ Dutch, basic proficiency.
Job Seek Opportunities	As a professional in Innovation Management and Industrial Engineer, I am focused on professional development opportunities that integrate innovation, and business development. Areas of interest include the following: • University & industry alliance • New product development • Innovation ecosystems • Open innovation • Corporate entrepreneurship
Work Experience Summary	Professional and academic experience in innovation management in Costa Rica and The Netherlands focused on value and performance of open innovation partnerships, and innovation culture. Also, I have international working experience in the medical device industry at Costa Rica and the USA in new product development, strategic alliances, business development, project management, technology, and operations management. My latest job challenges have involved the enhancement of innovation capabilities and talent development with external organizations, e.g. private and public universities, and new product development projects. <i>Boston Scientific</i> • Prin. Business Strategy Partner May 2020 - today • Stretch Assignment – Innovation Practitioner Jan 2019 – Apr 2020 • Sr. Process Development Lead. Jan 2017 – Apr 2020 • Packaging Engineer Nov 2013 – Jul 2014 • Project Engineer Feb 2012 – Oct 2013 • Manufacturing Engineer Jul 2008 – Feb 2012 • Intern Feb 2008 – Jul 2008 <i>UCIMED:</i> Innovation Leaders Apr 2022 – today (part-time) <i>Universidad Nacional:</i> Visiting Lecturer, Innovation & Technology Master's Degree May 2019 - today <i>LEAD University:</i> Visiting Lecturer, Med Device Management Executive Program March 2023. <i>Instituto Tecnológico de Costa Rica:</i> Visiting Lecturer, Med Device Eng Master's Degree Oct 2019 – Mar 2022 <i>Eindhoven University of Technology, ITEM Group:</i> Research Assistant Feb – Aug 2016. <i>Comfort Partners, Amersfoort, The Netherlands:</i> Consulting Internship Jan – Jun 2015

Responsibilities & Major Achievements

Boston Scientific Corp

Principal Business Strategy Partner

Responsible to identify, plan, coordinate and execute innovation driven initiatives targeted to increase the identification, development and implementation of new technical/infrastructure capabilities and talent development within Boston Scientific Costa Rica sites in liaison with governmental and academic institutions, and private partners.

All innovation driven initiatives are intended to better prepare Boston Scientific Costa Rica sites for the upcoming business and technology challenges of the industry. Also, to contribute as well with the Medical Device Cluster in Costa Rica by setting up governance models, strategic pillars, and shared resources with all involved actors to better position the country as a medical device innovation and business development option. Few results out of this role are the following:

- Co-leadership of the Talent Development and R&D Committees of the Med Device Cluster, engaging more than 20 organizations: private companies, UNA, INA, ASU, Texas Tech, CICR, etc.
- Collaboration agreements with public and private universities to develop technical talent and leverage technical capabilities, e.g. lab infrastructure for pre-clinical studies and material testing.
- Collaboration with INA, thus resulting in 350+ BSC employees, and 4000+ Med Device employees getting technical trainings. Update on technician programs were initiated as well getting input from the Med Device cluster.
- Approval of a 3M US\$ innovation and training lab for engineers and physicians at Boston Scientific.

Process Development Engineer – Founding Member of PUMA Team

The PUMA Team is a collocated, functionless team dedicated to design, develop, and implement new business opportunities (incremental innovations) within the Endoscopy Division, Hemostasis Franchise of Boston Scientific. Its execution is based on the merge of different innovation related topics such as agile mentality, corporate entrepreneurship, fast prototyping, and collaborations with externals and internal organizations to rapidly respond to new and increasing market requirements worldwide. New products launched:

- Captivator COLD Snare: More than 1M US\$ in revenue for the first year after launch.
- Resolution 360 Ultra Clip: Launched May 2020 EU, Aug 2020 USA, Oct 2020 Costa Rica.
- Technology Development for Resolution 360 Viper, to be launched.

UCIMED

R&D+I Coordinator (Part Time):

My role at UCIMED is focused to guiding the university in a strategic model which it will allow to include R&D and innovation as central axis in topics such as change management, development of an academic entrepreneurship program and engagement with the Costa Rican innovation ecosystem.

LEAD University, Costa Rica

Teaching at the Med Device Management Executive Program, focused on developing management, operation, and innovation skills on mid senior professionals. I taught the specific course on Med Device Innovation.

Universidad Nacional, Costa Rica

Visiting Lecturer – Innovation & Technology Master's Degree:

Teaching at master level degree the courses *Cooperation among Industry, Government & Academia* and *Evaluation*

and Formulation of Innovation Projects. My teaching focuses on combining lectures and workshops based on published scientific papers, real case studies, visits of recognized experts and speakers in innovation and promoting real-life case study research with-in the context of innovation in Costa Rica and Latin America.

Instituto Tecnológico de Costa Rica

Visiting Lecturer – Medical Device Engineering Master’s Degree:

Teaching at master level degree the courses of Innovation Management with special emphasis on the medical device regulatory requirements and best practices. Lectures are focused with a merge of practical workshops, scientific published papers, and real case studies.

Eindhoven University of Technology, ITEM Group – Industrial Engineering & Innovation Sciences School

Research Assistant:

Responsible for one of the research projects at the ITEM Group of the Industrial Eng. & Innovation Sciences School. The study falls within the knowledge sharing activities under the supervision of Prof. Thijs Peeters. Its focus was on Value & Performance Measurement Mechanisms in the Open Innovation Collaborations between Academia & Industry. This project provided to commercial and academic organizations with a measurement tool on how to assess their strategic areas of focus (perspectives) when implementing a performance measurement system with BSC’s. This research executed with a real-life case study for the Philips Lighting and TU/e partnership.

Comfort Partners

Internship – Technology Adoption

Applied consultancy intended to provide technical advice to a project team on how to facilitate the adoption during implementation of software BIM360. The advice consisted on providing the organization an implementation plan targeted to the construction direct labor and supporting administrative personnel as main future users of this software. The project was circumscribed within theories and best practices related to change management and innovation adoption within organizations. It provided an iterating approach to manage a phased implementation and included the involvement of direct future users of BIM360.

Boston Scientific Corp

Packaging Engineer:

Technical and operational leadership in several projects that included design changes in the packaging components or packaging processes that accounted up to 670k US\$ in savings. Other responsibilities included budget calculations for upcoming fiscal years in terms of scrap performance, materials price variability and future improvements with direct impact on the standard cost of manufacturing.

Project Engineer:

Identify, plan, execute and close improvement cost saving opportunities in terms of scrap, labor, overhead, design changes and/or materials cost reduction. Plan projects in terms of economic impact, cost incurred, identification of stakeholders, core team members. Projects led included operational strategies, e.g. insourcing of manufacturing activities, vendor changes, manufacturing improvements, lean activities. Savings ~1.7M US\$.

Manufacturing Engineer:

Responsible for the successful transfer of manufacturing processes from sister plants and execution of process and product validations. Maintain & improve process performance and quality metrics by using statistical tools, problem solving and process improvement roadmaps (Lean – Six Sigma) and execute non-conformance events investigations and support of regulatory audit activities.

Product Transfers & International Assignments:

- Miami – Costa Rica Product Transfer (Feb – Sep 2011)

- International Assignment at Miami, USA (April 2010 – January 2011)
- Spencer, Indiana - Costa Rica Product Transfer (Dec 2008 – Feb 2009 & Jun – Aug 2009).

Intern:

Graduation Project for Licentiate Degree (Internship): Yield Loss Improvement, Redesign of Process of Materials Assignment and Scrap Control for RJ3 Products, 70k US\$ in savings.

Publications

Calvo Camacho, D. (2014, July). *Sealing the Deal: Boston Scientific Heredia Validates Changes to Packaging Process*. Minitab Case Studies. Retrieved from <http://www.minitab.com/en-us/Case-Studies/Boston-Scientific/>

Calvo Camacho, D. (2015, January). *Mega Pack Line Blow-Up: DMAIC Roadmap Leads Boston Scientific Heredia to Reengineer Packaging Lines*. ASQ Knowledge Center. Retrieved from <http://asq.org/knowledge-center/case-studies-boston-scientific-mega-pack-line-blowup.html>

Calvo-Camacho, D. (2016, August). *Value and performance measurement systems in the dyadic open innovation collaboration between Industry and academia: A case research study of company and university collaboration – Philips Lighting & TU/e Partnership*. Eindhoven University of Technology. Retrieved from <https://research.tue.nl/en/studentTheses/value-and-performance-measurement-systems-in-the-dyadic-open-inno>

Tech Talks & Conferences

Calvo Camacho, D., & Lazaro Villalobos, D. (2018). *Global Collaboration to Boost Meaningful Innovation*. Life Sciences Forum 2018. Heredia: CINDE. Retrieved from <https://youtu.be/-3Q9IO-OcvM>

Calvo Camacho, D. (2019) *Innovación a través de la Colaboración Industria - Academia*. Sector Ciencias de la Vida, Costa Rica. Conferencia Innovación Aplicada a la Empresa. Cámara de Comercio de Pasto. Pasto, Departamento de Nariño, Colombia.

García, David; Guevara, Melissa; Calvo, Daniel & Villalobos, Jannixia (2022). *Conversatorio: Fortalecimiento del sistema nacional de innovación*. Noveno Congreso de Innovación, Cámara de Industrias de Costa Rica. <https://cicr.com/wp-content/uploads/2022/09/AgendaInnova2022.pdf>

Patents

Saenz et al (2018). US Patent No. Submission US11129623B2 – *Dual Support Jaw Design*. Washington, DC: U.S. Patent and Trademark Office. <https://patents.google.com/patent/US11129623B2/en?inventor=Daniel+Calvo+Camacho&oq=Daniel+Calvo+Camacho>

Saenz et al (2019). US Patent No. Submission US20210007748A1. – *Multiple Band Ligation*. Washington, DC: U.S. Patent and Trademark Office. <https://patents.google.com/patent/US20210007748A1/en?inventor=Daniel+Calvo+Camacho&oq=Daniel+Calvo+Camacho>

Calvo Camacho et al (2019). US Patent No. Submission TBD – *Dual Purpose Medical Device for Polyp Resection Snare & Rescue Net*. Washington, DC: U.S. Patent and Trademark Office.

Saenz, G; Berenzon, R & Calvo Camacho, D. US Patent No. Submission USD950056S1- *Device for treating tissue*. Washington, DC: U.S. Patent and Trademark Office. <https://patents.google.com/patent/USD950056S1/en?inventor=Daniel+Calvo+Camacho&oq=Daniel+Calvo+Camacho>

Saenz et al (2019). US Patent No. US11129623B2 – *Dual Support Jaw Design*. Washington, DC: U.S. Patent and

Trademark Office.

<https://patents.google.com/patent/US11129623B2/en?inventor=Daniel+Calvo+Camacho&og=Daniel+Calvo+Camacho>

Saenz et al (2022). WIPO No. WO2022241087A1. *Devices, systems, and methods for positioning an elongate member within a body lumen*. World Intellectual Property Organization.

<https://patents.google.com/patent/WO2022241087A1/en?inventor=Daniel+Calvo+Camacho&og=Daniel+Calvo+Camacho>