

CHRISTOPHER CATINELLA

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OBJECTIVE

Diversified mechanical engineer with strengths in product design, analysis, business process improvement, communication, and leadership. Seeking opportunities to consult with a forward-thinking company where innovation and creativity are essential.

SUMMARY

More than sixteen years of experience in the design and development of sophisticated medical products, consumer electronics, and industrial products. Skilled in identifying user requirements, managing budgets and schedules, design controls, conceptual engineering and feasibility, prototyping, testing, risk analysis, tolerance analysis, verification and validation, regulatory compliance, and new product launch.

- Lead small 2-4 person teams to large multi-disciplinary 14-20+ person programs consisting of human factors specialists, industrial designers, mechanical, electrical, software, and quality engineers.
- Implemented various business processes and systems including document controls, QMS, PDM, financial tracking, IT, and resourcing.
- Developed a broad range of products from consumer and electronics products, to medical devices, to automation and robotics, to industrial processing systems.
- Navigated challenging technical problems through a process of breaking the problem down, identifying risks, asking appropriate questions, and mitigating risks to acceptable levels for moving forward.

EXPERIENCE

Mechanical Product Engineer (Freelance) – Principal – Long Island, NY (Traveling) Jun 2022 - Present
Providing remote and/or on-site product development and engineering consulting tailored to your business processes and needs. Ability to jump in at any point in the process and quickly add momentum to your product development project.

Fikst Product Development – Operations Manager – Woburn, MA Nov 2020 – Jun 2022
Oversaw daily operations of the facility, including data management, inventory management, resource allocation, equipment installation and upkeep, IT, and generally supported the needs of the broader team to ensure they had the resources, tools, and training, they need to do their job effectively.

Radius Innovation and Development – Engineering Manager – Waltham, MA Oct 2016 – Nov 2020
Oversaw direct reports and a broader team of eight engineers, responsible for the design, development, and manufacture of a multitude of products. As a critical member of the management team was also responsible for project success through team development, project planning and staffing, proposal development, project oversight, process improvement, as well as overseeing company-wide initiatives and objectives.

- Developed process thinking and messaging on conceptual engineering, technical feasibility, and mechanical design to align company viewpoint, and message both internally and externally.
- Lead the development of the department to be highly responsive to customer needs including representing as consultants first and engineers second.
- Mentored team members and offered opportunities for growth and increased satisfaction.
- Collaborated with other functional managers and departments to achieve company goals.
- Interfaced with customers to develop project plans that achieve business, user, and technical objectives.
- Provided program oversight and guidance through weekly program review meetings by the management team.

Radius Innovation and Development – Senior Design Engineer / PM – Clinton, MA Apr 2014 – Oct 2016

- Managed multi-disciplinary teams of researchers, industrial designers, mechanical engineers, electrical engineers, software developers, implementation teams, and quality and test personnel.
- Created and executed project plans while managing risks throughout the project.
- Developed expertise in good documentation practices for risk management, FDA submissions, and regulatory compliance.
- Managed relationships and contracts with multiple consultants and suppliers.
- Effectively led project meetings, set project budgets and schedules, tracked timing, and adjusted plans as needed to align with customer needs, resource availability, and competing project priorities.
- Supported mold validations (IQ, OQ, PQ) to ensure tooling was capable of producing quality parts within specification.
- Brought products from sketch to market at high speed using adapted Agile methodologies.
- Mentored and guided Engineering teams in complex problem solving.

Radius Innovation and Development – Senior ME / IT Admin – Clinton, MA Jun 2011 – Apr 2014

- Interfaced with suppliers/clients on process and tooling matters, mold and fixture design, process capability studies, product quality issues, and RCA.
- Developed specifications, verification test plans, quality plans, and build plans to govern internal and external manufacturing.
- Managed product data within the PDM system including BOMs, parts, assemblies, electronics, software, and firmware releases.
- Managed servers, network and domain permissions, developed file organization system, and managed data backups.
- Developed IT processes consistent with company's quality and confidentiality requirements.

Radius Innovation and Development – Mechanical Design Engineer – Clinton, MA Nov 2006 – Jun 2011

- Worked side by side with Research, Industrial Design, Engineering, Quality, and Implementation to develop concept-to-market products.
- Developed numerous products (Teva Inhaler, Coca-Cola Freestyle, Injection Devices, Wearables)
- Experience in soft goods, including incorporating overmolded electronics and woven materials into wearables.
- Became experienced in CAD, Surfacing, FEA, Tolerance Analysis, Part Design for various manufacturing processes.

Overbeck Corporation – Mechanical Engineer – Hauppauge, NY 2002 – 2004

- Designed, built, and tested precision grinding machine centers.
- Developed customized automatic parts loaders, bowl feeders, and conveyors.
- Implemented an efficient part numbering and network file sharing system.

EDUCATION

Rensselaer Polytechnic Institute - Troy, NY May 2006
Bachelor of Science, Mechanical Engineering

SKILLS

Cross Functional Collaboration, Program Management, Risk Management, HARA, FMEA, ISO 13485, ISO 14971, Root Cause Analysis, Cost Reduction, DFM/A, Ultrasonic Welding, Laser Welding, Insert and Overmolding, Two-Shot Design, SolidWorks, Creo, AutoCAD, ANSYS, SolidWorks Simulation. Experience in the use of machine tools including Milling Machines, Lathes, CNC Machines, Waterjet, Laser Cutting and Etching, Additive Manufacturing, Sheetmetal Forming, Welding, and Surface Grinding.