

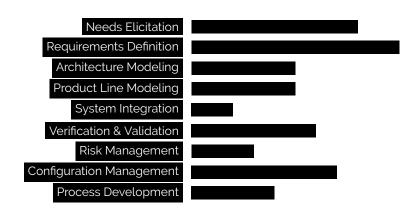
Principal Systems Engineer





WHO AM I?

I am a Certified Systems Engineering Professional (CSEP) with over 15 years of experience designing complex medical systems. I have served as both a systems engineering technical lead and a systems engineering product owner for various medical devices and systems spanning cardiac rhythm management, cardiovascular interventions, peripheral interventions, and urology. My educational background was in electrical engineering (MS) and computer engineering (BS) with a focus on embedded software design, computer architecture, and semiconductor physics.



Agile SE	EMC	Human Factors	Lean SE	Modeling	Standards	SysML
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AccuRev	Cockpit	Jira	MagicDraw	Modelio	Cameo	Windchill

EXPERIENCE

02/19 - Present

Principal Systems Engineer

Boston Scientific, Cardiac Rhythm Management

Systems engineering technical lead for a urinary control system which consisted of an active implantable medical pump and urethral cuff, a patient handheld control unit, a clinician and patient mobile phone application, and a clinician website for patient management and device analysis. Responsible for technical planning, technical monitoring, needs elicitation, stakeholder and system requirements definition, system architecture and design definition, product line modeling, regulations and technical standards assessment, configuration and change management, and process definition.

Needs Elicitation / Requirements Definition / Architecture Modeling / Product Line Modeling / Configuration Management / Process Definition

03/17 - 02/19

Principal Systems Engineer

Boston Scientific, Interventional Cardiology

Systems engineering technical lead for a trans-aortic valve replacement (TAVR) delivery system and a rotational atherectomy system. Responsible for technical planning, technical monitoring, needs elicitation, stakeholder and system requirements definition, system architecture and design definition, product line modeling, regulations and technical standards assessment, configuration and change management, and process definition.

Needs Elicitation / Requirements Definition / Architecture Modeling / Product Line Modeling / Configuration Management / Process Definition

03/09 - 03/17

Principal Systems Engineer

Boston Scientific, Cardiac Rhythm Management

Systems engineering product/feature owner for a remote patient management system consisting of an active implantable medical device (implantable pacemaker, implantable cardioverter defibrillator, and cardiac re-synchronization therapy device), a patient home monitor, and a clinician website for patient monitoring and device analysis. Responsible for technical planning, technical monitoring, stakeholder and system requirements definition, system architecture and design definition, product line modeling, regulations and technical standards assessment, configuration and change management, and process definition.

Requirements Definition / Architecture Modeling / Product Line Modeling / Configuration Management / Process Definition

04/07 - 03/09 Senior Systems Engineer

Boston Scientific, Cardiac Rhythm Management

Systems engineering product/feature owner for a clinician programmer/recorder/monitor (PRM) system and a pacing system analyzer (PSA) system. Responsible for technical planning, technical monitoring, stakeholder and system requirements definition, system architecture and design definition, regulations and technical standards assessment, system integration, system

verification & validation testing, and configuration and change management.

Requirements Definition / System Integration / Verification & Validation /

Configuration Management

06/05 - 04/07 **Systems Engineer II**

Boston Scientific, Cardiac Rhythm Management

Systems engineer for an active implantable medical device (implantable pacemaker, implantable cardioverter defibrillator, and cardiac re-synchronization therapy device) system. Responsible for system integration and system verification & validation testing.

System Integration / Verification & Validation

EDUCATION

2005 - 2009 Master of Science in Electrical Engineering University of Minnesota, Twin Cities

Summa Cum Laude

2001 – 2005 Bachelor of Science in Computer Engineering Rose-Hulman Institute of Technology

Magna Cum Laude, Certificate in Semiconductor Physics

CERTIFICATIONS

CSEP Certified Systems Engineering Professional INCOSE

International Council on Systems Engineering

AWARDS

2019 John Abele Science & Technology Award Boston Scientific

HeartLogic Heart Failure Diagnostic