

# Mohaç Tekmen PhD

Saint Paul MN | mohactekmen@gmail.com

## PROFESSIONAL EXPERIENCE

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### **Engineering Program Director | Medtronic | 2022 - Present**

Core Team Leader responsible and accountable for developing and commercializing a portfolio of new solutions in partnership with key stakeholders. Provides program leadership within the business and accountable to execute against key milestones and commitments leveraging unique and differentiated technologies.

### **Senior Program Manager | Medtronic | 2020 - 2022**

Responsible and accountable for management of the NPD scope, cost, schedule, and total cost of ownership including project plans, contracts, budgets, objectives, DRM Metrics, risks, and resources. Accountable for ensuring the cross functional and cross business team delivers all required business and compliance deliverables.

### **Senior Program Manager | Medtronic | 2017 - 2020**

Responsible and accountable of the governance of the Medtronic R&D Council and its Sub-Councils, Working Groups, and Initiatives. Leading Global R&D Footprint, Cross Business Unit collaboration and Common Platform initiatives. Representing R&D Council at the Medtronic Tri Council consisting of R&D Council, Quality Council, and Operations Leadership. Responsible for Innovation Management metrics across the enterprise.

### **Senior Engineering Manager | Medtronic | 2016 - 2017**

Quality Engineering Manager led the team responsible for Cardiac Rhythm Management. Established Patient Safety Engineering SMEs and procedures for CRHF. Led Design for Reliability activities from strategy to tactics. Created value proposition for reliability. Owned and led organization wide CAPAs. Established, maintained, and improved compliance procedures for design controls for medical device products. Perform internal quality audits. Respond to external auditors.

### **Engineering Manager | Medtronic | 2014 - 2017**

Quality Engineering Manager responsible and accountable for creation and execution of quality and reliability deliverables, including risk and safety. Led pre-market to post-market transfer deliverables. Worked with FDA and other regulatory agencies for product approvals. Worked with industry leaders, FDA, AAMI and, NIST for new product standards. Quality Core Team Member for High-Voltage Implantables for OUS, and US releases.

### **Principal Reliability Engineer | Medtronic | 2011 - 2014**

DRM/ DFSS Black Belt, CAPA Technical Lead, QCTM, Lead Reliability Engineer, Design for Reliability Lead, Technical Risk Management, AAMI National Standards, Audit Remediation, Supplier Yield Improvement (Technical Lead)

### **Senior R&D Engineer | Medtronic | 2011 - 2014**

Team leader for Electrical Test for Yield, IS4 Electrical Seal Isolation Test Development, Shape Sensing Fiber Feasibility, MRI IP Road Map

### **R&D Engineer | Medtronic | 2006 -2008**

Developed optical and electrical systems to detect electrical discharge and isolation failures for high voltage implantable medical devices.

## Research Scientist | University of Minnesota | 2005 -2006

Performed confocal microscopy of samples from industry to assess coatings and design requirements - single and multi-photon confocal microscopy of biological samples at the Biomedical Image Processing Laboratory. Implemented procedures for instrument calibration and usage.

## COMMUNITY INVOLVEMENT

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University of Minnesota, School of Physics & Astronomy Advisory Board Member 2018 to Present

## EDUCATION & CERTIFICATIONS

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- **Ph.D.**, Physics, University of Minnesota, MN  
*“Single Molecule Fluorescence: Spectroscopy and Imaging”*
- **M.S.**, Physics, Middle East Technical University, Turkey  
*“Classical Solutions of Seiberg-Witten Monopole Equations”*
- **B.S.**, Physics, Middle East Technical University, Turkey
  
- Medtronic DRM/DFSS Black Belt

## PATENTS & PUBLICATIONS

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- US 9,126,031 B2 “Medical electrical lead with conductive sleeve head “, Tekmen et al.
- Dual-Color Photon Counting Histogram, Y. Chen, M. Tekmen, L.N. Hillesheim, B. Wu, J.P. Skinner, and J.D. Mueller, Biophysical Journal **88**, 2177 (2005)
- High-pressure Cell for Fluorescence Fluctuation Spectroscopy, M. Tekmen and J.D. Mueller, Rev. Sci. Inst. **75**, 5136 (2004)
- Dual-color Fluorescence Fluctuation Spectroscopy In vivo and In vitro, J.D. Mueller, M. Tekmen, L.N. Hillesheim, W. Yang, and Y. Chen, SPIE Biomedical Optics **5323**:136 (2004)
- Wu-Yang Monopoles and non-Abelian Seiberg-Witten Equations, Tekmen M., Dereli T., Mod.Phys.Lett.A **13**, 1803 (1998)