

GORDANA NOVAKOVIC

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EXPERIENCE

Senior Medical Device Engineer, PharmOptima, Portage, MI Aug 2024 - Present

- Lead design and testing work for new implantable heart devices used in clinical trials.
- Work with doctors, regulatory teams, and quality groups to review new technology and guide product decisions.
- Design and test mechanical and electrical parts in SolidWorks to meet safety and material requirements.
- Prepare summaries and presentations for senior leaders and FDA reviewers.
- Support device testing to make sure designs are safe, reliable, and ready for manufacturing.

Principal R&D Engineer, Medtronic, Portage, MI Nov 2018 - Jul 2024

- Designed implantable neurostimulation devices, including leads, housings, and control interfaces.
- Led teams of engineers and clinical partners to deliver projects on time and within requirements.
- Reduced device size and improved battery performance through updated layouts and materials.
- Developed new electrode designs and testing methods that improved treatment results.
- Contributed to published patents and supported testing from prototype through clinical trials.

Senior Clinical Engineering Manager, Michigan General Hospital, Portage, MI Sep 2014 - Oct 2018

- Managed hospital equipment support for more than 5,000 devices across multiple departments.
- Oversaw a team of biomedical technicians and managed the annual equipment budget.
- Improved equipment uptime by updating maintenance plans and monitoring system performance.
- Helped the hospital pass all safety inspections by keeping accurate records and fixing issues quickly.
- Performed hands-on troubleshooting and guided improvements that reduced repair time.

Medical Device Engineer, Stryker, Portage, MI Sep 2013 - Aug 2014

- Assisted in designing components for surgical tools and implant systems using SolidWorks.
- Supported bench testing and simple verification tests to confirm parts met performance requirements.
- Helped update drawings, part specifications, and design documentation.
- Worked with manufacturing and quality teams to resolve small production issues and track test results.
- Built early prototypes and documented findings for senior engineers.

Biomedical Engineering Intern, Pfizer, Portage, MI May 2013 - Aug 2013

- Helped run simple lab tests on medical device materials and documented results in Excel.
- Assembled test fixtures and prepared samples for mechanical and chemical testing.
- Recorded test data and organized reports for senior scientists and engineers.
- Shadowed engineers during troubleshooting sessions and assisted with basic equipment checks.

EDUCATION

BSBME, University of Michigan, College of Engineering

May 2015

SKILLS

- **Design:** SolidWorks, Creo, AutoCAD, Fusion 360, CFD Analysis, 3D Printing
- **Analysis:** MATLAB, Python, LabVIEW, Minitab, Finite Element Modeling, Computational Biomechanics