Guy Bitton

Chicago, IL or remote| guybitton91@gmail.com | 773 543 9690 | www.linkedin.com/in/GuyBitton

A multi-disciplinary hands-on engineer with over **2 years** of experience in R&D of a mechatronic device and **5 years** of experience in system integration, leadership, and operation as an officer in Israel's elite technology unit. Looking for a challenging role in the development of innovative and meaningful technologies, preferably medical tech. **Eligible to work in the US for any employer without sponsorship.**

PROFESSIONAL SKILLS

- **Development of a Haptic Device (Published)**
- **CAD and Rapid Prototyping**
- **Programming with C, C++, MATLAB.**
- **User Experiments and Data Analysis**

- **Leadership and Communication (Military Officer)**
- **Technical Writing and Documentation**
- **Hands-on Electronics and Microcontrollers**
- **System Integration, Testing, and Verification**

PROFESSIONAL EXPERIENCE

Product Engineer (Surgical Robotics)   Mar 2021 – Present
Plexus Corp.
- SME for manufacturing and functionality of the robotic arm of the Medtronic Hugo Robotic-Assisted Surgery (RAS) system.

Medical Robotics Research Engineer   Jul 2018 – Dec 2020
The Bio-inspired and Medical Robotics Lab and *the Biomedical Robotics Lab*
- Designed a haptic device that was published in an IEEE journal and will contribute to medical applications such as surgical robotics. Developed the device from concept to execution using CAD, 3D printing, microcontrollers (embedded C/C++), and sensors.
- Implemented a user interface and data acquisition system using MATLAB and conducted over 10 psychophysical user experiments in the lab. Performed data analysis that led to published conclusions.
- Invented a new measurement concept that reduced measurement errors from over 10% to only ~1% Developed test plans and fixtures for the new method and reduced effects of manufacturing tolerance.

System Integration Specialist (Lieutenant) | *Unit 8200*   Jul 2013 – Aug 2014
- Led and performed the successful testing & validation of a $10M RF system under a tight schedule.
- Managed a team of 5 that collaborated with engineers from major tech companies.

System Operation Team Leader (Lieutenant) | *Unit 8200*   Jul 2011 – Jul 2013
- Led teams of 12 to accomplish ~50 missions in the operation of complex RF systems, making real-time technical and operational decisions. Was promoted due to excellent performance.

System Operator and Technician (Sergeant) | *Unit 8200*   Aug 2009 – Jul 2011
- Operated over 7 highly complex RF systems and solved malfunctions while having limited resources.

EDUCATION

MSc Mechanical Engineering | Ben-Gurion University (Be'er-Sheva, Israel)   **2018 –2020**
- GPA: 4.0; Magna Cum Laude; Accelerated MSc for top 10% of students; Full-ride scholarship.

BSc Mechanical Engineering | Ben-Gurion University (Be'er-Sheva, Israel)   **2015 –2019**
- GPA: 3.7; Top 8%; Cum Laude; Best capstone project (2019) out of ~60 projects.
- Chairman award (2017) given to 1 out of ~160 students.

Additional Skills: ModeFrontier (Basic), Visual Studio, MS Office, GD&T, FEA (basic), Linux (basic).
Languages: English (fluent), Hebrew (fluent), French (conversational), Spanish (conversational).