

Michael Hunter Brown

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PROFESSIONAL EXPERIENCE

Engineer-- SPAWAR SSC Pacific, December 2014 to Present

- Integrated custom hardware and software into various autonomous underwater vehicles
- Modeled and manufactured complex parts to support mission specifications
- Directed numerous at sea deployments and recoveries of ocean systems
- Created software to ensure vehicle stability and accuracy for precise operations
- Filed multiple provisional patents for novel ocean innovations
- US NAVY Certified Diver
- Cleared for a Top Secret-SCI

Mechanical Engineer -- SeeScan, November 2012 to November 2014

- Designed, developed, and validated next-generation utility locating and sewer inspection equipment with a focus on high-Q inductive clamps, for which a patent has been granted(US20150204995).
- Managed multiple products through all phases of the development life-cycle, from conceptualizing new ideas through sketching and rapid prototyping, to contracting with external vendors, supporting production, and overseeing assembly line manufacture.
- Conducted modeling, simulation, and analysis of molded components using CAD techniques, Solidworks Plastics, and rapid prototyping technology.
- Implemented changes to the cable termination of SeekTech nanoReel product line, resulting in a significant decrease in the failure rate and a reduction in assembly cost.

Engineer/Consultant -- Strategic Operations, July 2012 to January 2013

- Provided engineering support to the deployment of the Ballistic Unmanned Ground Vehicle (BUGV), a remotely operated target robot for hyper-real military simulations.
- Developed and validated a new software interface (C# and corresponding PLC code) to allow for more robust communication and control.
- Reconstructed vehicle drive-train and frame for increased maneuverability and speed.

SKILLS

Software Packages: AutoCAD, SolidWorks, MS Project, MATLAB, MS Office
Programming Languages: C/C++, Python, GCode, Galil
Manufacturing: GD&T, Injection Molding, FDM, Welding (MIG/TIG), CNC Machining

EDUCATION

Georgia Institute of Technology

Masters in Computer Science(MSCS), May 2017

University of California, San Diego

Leadership and Management Program Graduate, June 2014

Johns Hopkins University, Baltimore, MD

BS in Mechanical Engineering (BSME), May 2012

- Minor: Mathematics
- Pi Tau Sigma, Mechanical Engineering Honor Society

REFERENCES

Available upon request