

Ameer Helmi

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SUMMARY

- **Over 5 years of experience building, testing, and deploying robots and AI** in real-world environments, leading to multiple first author papers at prestigious conferences.
- **Over 5 years of experience** developing and managing implementations for **electronic medical record (EMR) software**, working with **9 customers on projects totaling over \$1 billion**.

EDUCATION

Ph.D., Robotics, Oregon State University, Corvallis, OR 09/2019 – 06/2024
Advisor: Dr. Naomi T. Fitter | GPA: 3.8
Dissertation: Mediating Child Physical Activity with Assistive Robots

B.S., Biomedical Engineering, University of Illinois at Chicago, Chicago, IL 08/2009 – 06/2013
Minor: Mathematics | GPA: 3.7

SKILLS AND CERTIFICATIONS

Programming: Robot Operating System (ROS), Python, MATLAB, Arduino, Git, Microsoft Suite, HL7 standards

Python libraries: OpenAI, NumPy, Pandas, scikit-learn, PyTorch

Hardware: 3D Printing, CAD

Research: Machine Learning, Human-Robot Interaction, Assistive Technology, Computer Vision

Certification: University of Washington Professional & Continuing Education C# and ASP.Net

PROFESSIONAL EXPERIENCE

Honeydew Consulting, FL 04/2025 – Present
Senior Consultant

- Implemented complete **audit** for Mass General Brigham Epic Beaker build, utilizing **custom made Excel scripts**.
- Initiated complex workflow design, working directly with executive leadership to ensure customer success.

Lakeland Regional Health, Lakeland, FL 12/2024 – 04/2025
Systems Analyst III

- **Reduced patient result delivery time by 10%** through resolution of complex laboratory workflow issues.
- Increased **implementation speed** for new lab instruments by **30%** through improvement of change control processes.

Oregon State University, Corvallis OR 09/2019 – 08/2024
Graduate Research Assistant

- Found evidence that **assistive robots can promote child physical activity** across 5 **12-month studies** in collaboration with physical therapists.
- Developed and built the **modular and novel GoBot**, integrating a TurtleBot2 base, Python, LIDAR, ROS, and 3D-printed multi-sensory hardware.
- Delivered **end-to-end ML solution in Python** for **affective computing** with a thermal camera.

Oregon State University, Corvallis OR

09/2019 – 06/2020

Teaching Assistant

- Developed **6 ROS2 assignments** for graduate Introduction to Robotics course with 20 students.
- Adapted **course material for virtual teaching within one week** for undergraduate Introduction to Python course with 80 students.

Epic Systems Boost, Seattle, WA

08/2015 – 12/2018

Technical Consultant

- **Crafted Epic interfaces** to lab instruments and reference lab testing, **following HL7 standards** and **ensuring correct ICD codes** transmitted to patient chart.
- Directed a **cross-functional team of 8 analysts** as application manager in implementing **\$250 million-dollar EMR** system at Yale New Haven Health.
- **Managed a team of 5 analysts** to develop and build unique EMR workflows at UCLA, guiding team on workflow design and focusing on customer needs.

Epic Systems, Verona, WI

06/2013 – 08/2015

Technical Solutions Engineer

- **Improved Cambridge Health laboratory result efficiency by 20%** with development of novel integrated system workflow.
- Worked directly with **C-Suite executives during Cambridge Health customer escalation, resolving critical system issues within 1 week** while preserving software integrity.
- Resolved over **200 Epic issue logs** across 3 organizations with robust and rapid fixes.

Hospira, Lake Forest, IL

01/2012 - 05/2012

Engineering Intern

- Conducted **rigorous impact testing and risk analysis** on Symbiq infusion pumps, contributing to **10% improvement** in product reliability.
- **Designed and 3D printed** a new shroud cover for Symbiq infusion pumps with **SolidWorks**.