

# Joe Lombardi

## **Pertinent Work Experience:**

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Electrical Engineer - Portsmouth Naval Shipyard (PNS) August 2016 - Present  
Innovation projects (3d printer rapid manufacturing, advanced tooling)  
Leader of various electro-mechanical projects, developed objectives and tasking

## **Education:**

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Worcester Polytechnic Institute (WPI), Worcester, MA  
Bachelor of Robotics Engineering with Distinction May 2018  
Graduate Studies in Robotics Engineering Present  
Santa Fe Institute Complexity Explorer, Online  
Agent-Based Modeling, Dynamical Systems and Chaos, Fractals and Scaling 2020  
Coursera MOOCs, Online  
Mathematical Thinking, Game Theory, Intro to Philosophy, Discrete Math 2019 - 2020

## **Notable Projects and Experience:**

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*Triadic Control Theory for a Holistic Engineering Education*  
Presented abstract for my paper at humanities and engineering symposium  
*Autonomous Underwater Lionfish Harvester*  
Leader of student team that designed and fabricated a robot to curb invasive lionfish  
*NextGen Leadership Development Program*  
Year-long interdisciplinary experience with networking and business coursework  
*Electric Car Conversion, 1962 Austin-Healey Sprite*  
Designed electrical diagrams, sourced parts by datasheets, assembled myself  
*Coach of FIRST Robotics Team 3597, 3 years*  
Taught robotics to highschool students, coordinated team, motivated towards creativity

## **Technical Skills:**

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*Programming:* C, C++, C#, Java, Javascript, Python, LaTeX, ROS, familiar with Linux and Unity  
*2D/3D Drafting:* AutoCAD, SolidEdge, SolidWorks, Fusion 360  
*Productivity:* Microsoft Suite, Google Drive, Overleaf, Trello, Git, Slack

## **Affiliations:**

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Member of the International Aldous Huxley Society (Literature) 2018  
Rho Beta Epsilon (Robotics Honor Society) 2017 - 2018  
National Committee of Rho Beta Epsilon (Robotics Honor Society) 2018 - 2021

## **Outreach and Volunteering:**

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Coach of FIRST Robotics Competition Team 3597 2019 - 2021