**🧾 🎯 Role Title: ROBOTICS SPECIALIST, DEVELOPER AND MENTOR  
📍 Location:** FESB - Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, Ruđera Boškovića 32, 21000 Split, Croatia **📅 Employment Period:** October 2019 – September 2021  
🎥 YouTube Demo: Not available  
📦 GitHub : <https://github.com/IvanSicaja/2019.10.01_GitHub_ROLE_Robotics-Association-Split>   
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🏷️ My Personal Profiles: ⬇︎  
🎥 Video Portfolio: To be added  
📦 GitHub Profile: <https://github.com/IvanSicaja>  
🔗 LinkedIn: <https://www.linkedin.com/in/ivan-si%C4%8Daja-832682222>  
🎥 YouTube: <https://www.youtube.com/@ivan_sicaja>  
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### 📚🔍 Project description: ⬇︎⬇︎⬇︎

### 💡 Role Description Team won a few RoboCup world awards.

To achieve an **optimal RoboCup competition robot**, the key factors include strong **mentorship and guidance** of both students and doctors of science, with a focus on **concept development, prototype improvement, and component research**. Success relies on integrating **custom solutions, 3D object design, 3D printing, CNC custom parts manufacturing, electronic prototyping, soldering, robot assembling, and testing** into a streamlined development process.

Equally important are **robot efficiency, cost-performance optimization, and the application of embedded systems** such as **Arduino, Raspberry Pi, computer vision, and sensor fusion**. By combining **technical development, knowledge transfer, and innovation**, robotics projects effectively bridge **academic research with practical implementation**, ensuring **efficient, reliable, and cost-effective robots**.

### ⚠️ Note

None.

### 🔧 Tech Stack

**Arduino, Raspberry Pi, Computer Vision, Sensor Fusion, C++, Python, Embedded Systems, 3D CAD Design, 3D Printing, CNC Manufacturing, Electronic Prototyping, Soldering, Custom Hardware Solutions, Robot Testing, Efficiency & Cost Optimization, STEM Mentorship, Knowledge Transfer.**

### 📸 Project Snapshot

Not available.

### 🎥 Video Demonstration

Not available.

### 📣 Hashtags Section

**# #Robotics #STEM #Mentorship #RoboCup #PrototypeDevelopment #ComputerVision #Arduino #RaspberryPi #3DPrinting #CNC #SensorFusion #CustomSolutions**