



475 Paramount Drive  
Raynham, MA 02767  
July 28, 2020

To Whom It May Concern:

Andrew (Andy) Whitehead worked with me at Medrobotics from 2017 – 2020. In his role as Advanced Manufacturing Engineer, Andy was responsible for supporting production lines with, process improvements, cost reductions, design improvements and process validations. As part of his responsibilities, Andy was given the most difficult task of redesigning the support arm of our Flex® Robot. The current design was unreliable, expensive and difficult to assemble. Additionally, to add an even higher level of difficulty, any changes had to minimize impact on existing inventory, be easily field-replaceable and indiscernible ascetically to the current customers.

Andy quickly diagnosed the problems with the design and manufacturability. He implemented a multi phase plan; one with short, medium and long-term solutions. One of the initial short term fixes was implemented for less than \$5 dollars with the clever use of a Belleville washer ! This initial fix had the added benefit of being done in the field, thus preventing expensive return shipments to the plant. Once the initial plan was complete, the medium term fixes were implemented. Finally, with all these solutions tested and implemented Andy re-designed the support arm for use in future generations of robots. This iteration was smoother and had the customer required feature of tactile feedback when locked.

Andy would be a tremendous asset for your team and has my highest recommendation. If you have any further questions with regards to his background or qualifications, please do not hesitate to call me.

Regards,

Joseph D. Arruda  
Sr. Director of Manufacturing Operations  
Medrobotics  
475 Paramount Drive  
Raynham, MA 02067

---

**Medrobotics Corporation**

475 Paramount Drive, Raynham, Massachusetts 02767 USA

Company: +1-508-692-6460 | FAX: +1-508-823-1703 | [www.Medrobotics.com](http://www.Medrobotics.com)