Closed-Loop Active Compensation for Needle Deflection and Target Shift During Cooperatively Controlled Robotic Needle Insertion

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Abstract—The abstract by Will goes here.

Index Terms—IEEE, IEEE
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I. INTRODUCTION

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mds February 7, 2023

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II. METHODS AND MATERIALS

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III. RESULTS

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IV. DISCUSSION

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APPENDIX A
PROOF OF THE FIRST ZONKLAR EQUATION
Appendix one text goes here.

APPENDIX B

Appendix two text goes here.

All authors are software engineers in their professional life.

ACKNOWLEDGMENT

The authors would like to thank...

REFERENCES

 H. Kopka and P. W. Daly, A Guide to LTEX, 3rd ed. Harlow, England: Addison-Wesley, 1999.

Patrick Donelan Biography text here.

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Debbie Guenthner Biography text here.

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Arjan Gupta Arjan Gupta is an Embedded Software Engineer employed by Lindsay Corporation. He graduated from the University of Kansas in May 2017 with a Bachelor of Science in computer engineering and a minor in mathematics. He is currently pursuing his Master of Science in robotics engineering at Worcester Polytechnic Institute.

Will Yingling Biography text here.

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