**Literature Planner – Instructions**

Delete this page when submitting this document online for assessment.

**Reference Number:** Number your references starting from 1

**Authors:** If one or two authors list their names. If more than two list the first author followed by et. al.

**Title of Article:** The title of the research paper / book etc.

**Type:** State if it is a conference, journal, book etc.

**Publication:** The name of the publication that the work was published in.

**Year Published:** What year was article published

**Number of citations:** The number of citations that the publication has received to date. Also mention the source of data (e.g. Scopus or Google Scholar)

**Publication Rating:** Use Scopus to determine the CiteScore and ranking information for each publication. Not all publications are rated, use 'N/A' if there is no score. See notes on how to extract this from lecture 2, and the document ‘How to measure impact - CiteScore and citation counts’

**Primary or Secondary:** State if the research conducted in the article is primary or secondary research (see lecture notes week 2)

**What themes were discussed in the Literature Review:** Use keywords to discuss the major themes in the article

**What was the research question:** What was the question the article was trying to find the answer to?

**Design:** How did they try and answer the question: What did they do? E.g. simulation, experimental design, statistical analysis etc.

**What was the finding:** What answers were found from undertaking the research in the article?

**What were the gaps:** What limitations occurred in the research design or where outlined in the results or discussion?

*Note: When this work is submitted into Turnitin, it is ok if the similarity percentage is high due to the similarity in headings. What the markers will be concentrating on is the similarity in the text that you write*

**Literature Planner**

**Student Name: Student Number:**

**Topic:**

**Reference Number: Authors:**

**Title of Article:** Investigation of the micro-step control position system performance affected by random input signals

**Type:** Journal **Publication:**

**Year Published:** 2005 **Number of citations:**

**Primary or Secondary:**

**Publication Rating:**

*CiteScore: Rank: Percentile: In-Category: CiteScore Year:*

**What themes were discussed in the Literature Review?**

**What was the research question?**

**Design:** Experimental design; they created a microstepping driver and control unit using a ID controller.

**What was the finding?**

**What were the gaps?**

**Reference Number: Authors:**

**Title of Article:** H-infinity feedback control of a permanent magnet stepper motor

**Type:** Journal **Publication:**

**Year Published:** 1997 **Number of citations:**

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**What themes were discussed in the Literature Review?**

* Stepper motors originally designed to provide precise positioning without using sensors
* Stepper motor in open loop configuration results in very low performance
* Step response has significant overshoot and long settling time

**What was the research question?** Provide feedback control to PM stepper motor

**Design:**

**What was the finding?**

* Linear model is derived
* Model is used to design a controller
* Control technique uses H-infinity control
* This technique guarantees robustness to overcome effect of non-linearities, parameter variations and changes in load torque.

**What were the gaps?**

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