

Project Title

**UCT SHARC Buoy:
Environmental parameter
sensing and estimation**

08/18/2020

id. 17252617

by **Junior Makgoe** in **EBE Electrical Submissions
Undergraduate**

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Original submission

08/18/2020

Project Aims	i have to design and test sensors that will be able to measure different parameters in the Souther Ocean. in addition, i have to come up with an estimate as to how these sensors are expected to behave in this region.
Ethical Issues	I will be basing my design off of a current prototype that has already been developped and will be accessing the data that has already been collected by this prototype. thus needing access to sensitive information
Application Checklist	Read the EBE Ethics in Research Handbook before completing this application
Researcher(s)	Junior Makgoe
Department	Electrical Engineering
E-mail	mkgpul005@myuct.ac.za
Status of Applicant	Student
Degree Being Studied (For Students Only)	BSc in Mechatronics
Name of Supervisor (For Students Only)	Robyn Verrinder
Review Track	Normal
Motivation for an Expedited Review	n/a

Completed Ethics Application Form

[2020_EEE4022S_EBE_EiRC_form_1616822_MKGPUL005_MAKGOE_PHJM.pdf](#)

SECTION 1: n/a
Overview of ethics
issues in your
research project

Question 1: Harm to
Third Parties **No**

Question 2: Human
Subjects as Sources
of Data **No**

Question 3:
Participation or
Provision of
Services To
Communities **No**

Question 4: Conflicts
of Interest **No**

If you have answered YES to any of the above questions, please ensure that you append a copy of your Research Proposal (Addendum 1), as well as any interview schedules or questionnaires and consent documentation (Addendum 2) and complete further addenda as appropriate.

I hereby undertake to carry out my research in such a way that:
1. there is no apparent legal objection to the nature or the method of research; and
2. the research will not compromise staff or students or the other responsibilities of the University;
3. the stated objective will be achieved, and the findings will have a high degree of validity;
4. limitations and alternative interpretations will be considered;
5. the findings could be subject to peer review and publicly available; and
6. I will comply with the conventions of copyright and avoid any practice that would constitute plagiarism

ADDENDUM 1 n/a
Supporting
documents

Research Proposal

[Verrinder_Topics_2020.pdf](#)

ADDENDUM 2 To be completed if you answered YES to question 2 in section 1

It is required that you read the [UCT Code for Research involving Human Subjects](#) in order to be able to answer the questions in this addendum.

Ethical research should safeguard the interests of society and the welfare of all who participate in the research, be they individuals or groups. In this section the researcher is asked to consider the implications of their research on participants in the research. The researcher should outline risks that participants will face by being involved in the research.

When a research involves vulnerable people, a researcher is expected to obtain informed consent from participants. This informed consent should be signed by the participants. Informed consent is intended to protect the interest of both participants and the researcher should something go wrong or should conflict arise between the researcher and the participant.

Question 2.1: Discrimination	n/a
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Question 2.2: Participation of socially or physically vulnerable people	n/a
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Question 2.3: Informed consent	n/a
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Question 2.4: Confidentiality	n/a
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Question 2.5: Anonymity	n/a
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Question 2.6: Risks of physical, psychological or social harm	n/a
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Question 2.7: Payments and giving of gifts	n/a
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Interview Schedule	n/a
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Consent Form	n/a
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Additional Comments	n/a
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ADDENDUM 3 To be completed if you answered YES to question 3 in section 1	Research may sometimes interfere with the organization, progress or advancement of communities. In this section the researcher is asked to consider the effect of their research on a community or communities involved in the research. Attention should be paid to whether the research will disrupt or interrupt the normal activities of the community and how the research will influence communities in the long term.
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Question 3.1: Community participation	n/a
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Question 3.2: Termination of economic or social support	n/a
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Question 3.3: Provision of sub standard services	n/a
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Additional Comments	n/a
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ADDENDUM 4 To be completed if you answered YES to question 4 in section 1	A conflict of interest may compromise the conduct or outcome of a research project. It may also infringe on the interests of other researchers. In this section the researcher is asked to consider if their research may be compromised by the inclusion of certain individuals or groups in the research. The researcher is also asked to consider whether the inclusion of certain individuals or groups in the research will compromise the research of others at the university. For example, if any participants in the proposed research project are also involved in other projects at the university, have you considered if this participation will negatively affect their work?
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Question 4.1: Conflicts of interest	n/a
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Question 4.2: Sharing of information	n/a
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Question 4.3: Conflict of interest with other research	n/a
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Additional Comments	n/a
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