UNIVERSITY OF BUEA

FACULTY OF SCIENCE

DEPARTMENT OF COMPUTER SCIENCE

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

PROJECT REPORT

TITLE: TOWARDS A DATA STRUCTURE FOR PARAMETER PASSING STYLES.

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SC17A350

SUPERVISOR: DR WILLIAM S. SHU

31 AUGUST 2020

DECLARATION

I hereby declare that this project report has been written by me Noumba Leonard, that to the best of my knowledge, all borrowed ideas and materials have been duly acknowledged, and that it has not receive any previous academic credit at this or any other institution.

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CERTIFICATION

This is to certify that this report entitled “TOWARDS A DATA STRUCTURE FOR PARAMETER PASSING STYLES” is the original work of NOUMBA LEONARD with Registration Number SC17A350, student at the Department of Computer Science at the University of Buea. All borrowed ideas and materials have been duly acknowledged by means of references and citations. The report was supervised in accordance with the procedures laid down by the University of Buea. It has been read and approved by:

William S. Shu, PhD CEng CITP MBCS Date

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(Project Supervisor)

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ABSTRACT

Parameter passing mechanisms are used to pass parameters to procedures or functions and they are of different types and variously used in programming. Data structures are used to hold data values, relationship among them and operations used on these data.

This project aim at developing a data structure(skeletal data structure) that looks into closely(or examine) the various parameter passing mechanism which takes into account factors such as entity passed(e.g. value or computation), evaluation strategy, and execution context as well as typing.