

## A.H.M. NIPUNA CHAMARA

**OBJECTIVE**      Make the world a better place

### PROFESSIONAL ACHIEVEMENTS & PROJECTS

#### **SRI LANKAN PATENTS APPLIED**

Range Finder Sensor Based Density and Level Monitoring System

#### **PUTTALAM SALT LTD**

50 Ton weighbridge design and fabrication

Portable Conveyer Design and Fabrication

Renovation of Table & Crystal Salt Plant

5 Tons/Hour Salt Washing Plant Renovation

Auditor (ISO 9001:2015 Quality Management System) – Sri Lanka Standards Institution

#### **BRANDIX APPERAL SOLUTIONS LTD**

Automatic Operator Assistance Project, Victoria Secret Label Cutting Machine Design, Feasibility study and Research about the 3D printing technology usage for Apparel Sector Product Development, Pullout Automation Project / T-Shirt Neck Cutting Operation Automation/ Programmable Industrial Sewing Machine Foot Modification For Label Attaching, Introduce Concurrent Engineering Practices for R&D team to reduce the product developing time – Pre alternate analysis for design projects

#### **DSI SAMSON ENGINEERS PVT LTD**

Tire Vending Machine Design Project

#### **AIRCRAFT ENGINEERING WING, SRI LANKA AIRFORCE BASE, KATUNAYAKE**

Design of load proof testing machine

### SKILLS

#### **CAD – Solidworks, AutoCAD**

Microcontroller Programming– Microchip PIC, Arduino Boards

#### **PLC Based System Design**

Hands on experience on conventional and modern manufacturing technologies INCLUDING 3d Printing

#### **Microcontroller Programing and Product Design**

## WORK HISTORY

**Graduate Research Assistant, Department of Biological Systems Engineering, University of Nebraska, USA**

Since 2019

**LECTURER PROBATIONARY, DEPT. OF BIOSYSTEMS ENGINEERING, FAPM, WAYAMBA UNIVERSITY OF SRI LANKA**

Since 2017 April

**MANAGER OPERATIONS AND MAINTENANCE, PUTTALAM SALT LTD, PALAVI**

2016 Feb to 2017 April

**PROJECT MANAGER FAIRWAY HOLDINGS GROUP**

2015 July to 2016 Feb

**EXTERNAL CONSULTANT- DESIGN ENGINEER, CAMOPLAST SOLIDEAL SRI LANKA**

2014 Sep to 2015 Feb

**R&D ENGINEER, BRANDIX APPAREL SOLUTIONS LTD**

2013 Aug to 2014 Sep

**TRAINEE AIRCRAFT MAINTENANCE ENGINEER, SRI LANKA AIR FORCE**

2012 April to 2012 Sep

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## EDUCATION

1. Reading for MS (Biological Systems Engineering Master, University of Nebraska, USA)
2. BSC (HONS) MECHANICAL ENGINEERING, UNIVERSITY OF MORATUWA 2013
3. **DIPLOMA IN INFORMATION TECHNOLOGY, UNIVERSITY OF MORATUWA, OPEN AND DISTANCE LEARNING CENTER 2012**
4. CERTIFICATE COURSE IN APPLIED ELECTRONICS, AND AUTOMATION TECHNOLOGY UNIVERSITY OF COLOMBO, 2007
5. STUDING FOR CERTIFICATE COURSE ON STAFF DEVELOPMENT – STAFF DEVELOPMENT CENTER, WYAMBA UNIVERSITY OF SRI LANKA, 2018
6. SUCCESSFULLY COMPLETED THE COURSE OF JAPAN-ASIA YOUTH EXCHANGE PROGRAM IN SCIENCE (SAKURA EXCHANGE PROGRAM IN SCIENCE) IN SHIBAURA INSTITUTE OF TECHNOLOGY (TOKYO) 2018 MARCH

## PUBLICATIONS

1. PERFORMANCE EVALUATION OF A TWO WHEEL TRACTOR (SONIK MINI CULTIVATOR), N RATHNAYAKA, IJ AMADORU, H GUNATHILAKA, A CHAMARA, PROCEEDINGS OF 17TH AGRICULTURAL RESEARCH SYMPOSIUM, 163-167, 2018
2. A STUDY ON THE CURRENT STATUS OF MECHANIZATION OF PADDY CULTIVATION IN SRI LANKA: CASE OF ANURADHAPURA DISTRICT, RSW GAMLATH, H GUNATHILKE, A CHAMARA, PROCEEDINGS OF 17TH AGRICULTURAL RESEARCH SYMPOSIUM, 129-133, 2018
3. PERFORMANCE EVALUATION OF A TWO WHEEL TRACTOR (SONIK MINI CULTIVATOR), N RATHNAYAKA, IJ AMADORU, H GUNATHILAKA, A CHAMARA, PROCEEDINGS OF 17TH AGRICULTURAL RESEARCH SYMPOSIUM, 163-167, 2018
4. UTILIZATION AND MAINTENANCE OF FARM TRACTORS IN KURUNEGALA DISTRICT OF SRI LANKA, H KAPUWATHTHA, IJ AMADORU, H GUNATHILAKA, A CHAMARA, PROCEEDINGS OF 17TH AGRICULTURAL RESEARCH SYMPOSIUM, 272-276, 2018
5. PERFORMANCE EVALUATION OF A TWO WHEEL TRACTOR WITH DIFFERENT TRAILER LOADS AND A ROTORVATOR, R RATHNAYAKA, IJ AMADORU, H GUNATHILAKA, A CHAMARA, PROCEEDINGS OF 17TH AGRICULTURAL RESEARCH SYMPOSIUM 168, 172, 2018
6. PERFORMANCE EVALUATION OF A FOUR WHEEL TRACTOR WITH DIFFERENT TRAILER LOADS AND TILLAGE IMPLEMENTS, UC DARSHANA, IJ AMADORU, H GUNATHILAKA, A CHAMARA, PROCEEDINGS OF 17TH AGRICULTURAL RESEARCH SYMPOSIUM 232, 236, 2018
7. DETERMINING QUALITY OF EDIBLE SALT IN SRI LANKA BASED ON CONSUMER'S PERSPECTIVES, K TARSHA, A CHAMARA, L SUMANARATNE... - PROCEEDINGS OF 17TH AGRICULTURAL RESEARCH SYMPOSIUM, 2018
8. KNOWLEDGE AND ATTITUDES OF VEGETABLE FARMERS ON ORGANIC FARMING: A CASE STUDY FROM ANURADHAPURA DISTRICT RM RUSHNEE, N UDAYANGA, A CHAMARA, H HERATH - 2018
9. STATISTICAL PROCESS CONTROL AND QUALITY ASSURANCE OF SOLAR CRYSTAL SALT INDUSTRY IN SRI LANKA: AN APPLICATION OF I-MR CHARTS AS AN INSTRUMENT, PROCEEDINGS OF 16TH AGRICULTURAL RESEARCH SYMPOSIUM (2017) 1-5
10. SENSOR BASED SELF POWERED SMART CONTROL SYSTEM FOR AGRICULTURAL IRRIGATION SYSTEMS/ JOURNAL OF FOOD AND AGRICULTURE VOLUME 5 ISSUE 1 & 2, 2012

RESPONSIBILITIES  
AND OTHER  
ACTIVITIES

1. COMMITTEE MEMBER FOR PREPARATION OF BUSINESS PLAN FOR “BUSINESS EXPRESS LIMITED” FOR MANAGING THE INCUBATION CENTER FACILITIES
2. MEMEBR OF PROPOSAL WRITING GROUP OF THE FACULTY OF AGRICULTURE AND PLANTATION MANAGEMENT FOR THE ACCELERATING HIGHER EDUCATION EXPANSION AND DEVELOPMENT (AHEAD) PROJECT
3. COMMITTEE MEMEBR ON WATER PROBLEM AT WAYAMBA UNIVERSITY OF SRI LANKA
4. WAYAMABA INTERNATIONAL CONFERENCE 2018(WINc-2018) SUBCOMMITTEE MEMBER
5. COORDINATOR OF 2015/2016 BATCH-BACHELOR OF BIOSYSTEMS TECHNOLOGY DEGREE PROGRAMME
6. TECHNICAL EVALUATION COMMITTEE MEMBER – INCUBATION CENTER
7. CO-CONTROLLING EXAMINER – GCE (AL) 2017 BIOSYSTEMS TECHNOLOGY PRACTICAL TEST HELD BY DEPARTMENT OF EXAMINATIONS, SRI LANKA
8. TECHNICAL EVALUATION COMMITTEE MEMBER – INCUBATION CENTER
9. COMMITTEE MEMBER OF AITEA 2017, 3<sup>RD</sup> INTERNATIONAL CONFERENCE OF ADVANCES IN TEA
10. FACULTY CARRIERGUIDENCE CORRDIATOR (2017-2019)

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MEMBERSHIPS

ASSOCIATE MEMBER OF SRI LANKA INSTITUTE OF ENGINEERS SRI LANKA SINCE 2012  
STUDENT MEMBER OF IEEE SINCE 2010