

# Linnaeus Bundalian

Software Engineer | Bioinformatic Engineer | Biomedical Engineer

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## Contact

📅 Date of birth 19/10/1992  
📁 Philippine, Filipino

## Languages

German   
English   
French 

## Social

🐙 @lbundalian  
in @linnaeus bundalian

## Education

**International Master in Biomedical Engineering** [Ecole Centrale de Lille](#) Lille, France  
Since September 2019

**BSc Computer Engineering** [Lyceum of the Philippines University - Laguna](#) Philippines  
From June 2009 to April 2014

## Professional Background

**Backend Developer** [Virtual Champs](#) Philippines  
Since June 2020

- Develop the business logic and APIs for backend implementation of websites

**Test Engineer ( Product, Process and Development )** [Continental Temic Electronics Philippines Inc](#) Calamba City, Laguna  
From June 2014 to October 2019

- Monitor machine performance which includes First Pass Yield and Overall Efficiency, develop and maintain test programs for products, train people on operating the test machines, perform analysis on test data, perform failure analysis for failed parts

## Affiliations

**Member** [International Society for Computational Biology](#) Global  
Since January 2021

## Training

**Genomics Data Science** [John Hopkins University \( Coursera \)](#) Online  
From July 2020 to December 2020

**Data Science Summer School** [LVIV](#) Ukraine  
August 2020

**Genomics in Virtual Lab** [Pine. BIO](#) Online  
From July 2020 to August 2020

**BioCode** [BioCode Ltd](#) Online  
May 2020

**Data Science** [John Hopkins University \( Coursera \)](#) Online  
Since July 2020

**Bioinformatics Specialization** [UCSD \(Coursera\)](#) Online  
Since July 2020

**PROJECT SPARTAPH : Data Science Track** [DOST](#) Philippines  
Since January 2020

**Next Generation Sequencing** [Arlekin](#) Philippines  
March 2019

## Projects

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- **Type 1- Fuzzy Logic Classification of Pain** - Fuzzy Inference System based from different tools of used in pain assessment
- **Monte Carlo Simulation: Photon Transport in Biological Tissue** - Object oriented design for simulating the transport of photons across human skin
- **Finger Orthosis for People with EDS** - Design a device to constraint the hyperflexibility of finger joints for EDS Patient
- **Characterization of Mechanical Properties of Bladder Tissue** - Implementation of image processing techniques to approximate the Young's modulus of bladder tissue
- **Design of Foot Prosthesis** - Design a SACH and Dynamic-Foot-Response hybrid prosthesis
- **3D SARS-CoV19 Visualization using Biopython** - Created a 3D Model of the SARS-Cov-19 Protein Structure
- **Anthomorphic EMG-driven Prosthetic Arm (On going)** - Develop a bionic arm which can be controlled by EMG signals

## Skills

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<b>Bioinformatics</b>	Biopython, Bioconductor, Galaxy, Databanks
<b>Electronics</b>	LTSpice, Circuit design and simulation, Amplification, Filtering, Arduino, Raspberry Pi, IoT
<b>Software Development</b>	C#, VB.Net, VBA, VB6, CVI, C, C++, Python, R, MATLAB, .NET, .NET Core
<b>Database Management</b>	RDBMS, SQL scripting in MS Access, MySQL, Oracle and Microsoft SQL
<b>Web Development</b>	HTML5, CSS3, ASP.NET MVC and Web Forms, WebAPI2, Bootstrap, jQuery, AJAX, Ruby on Rails
<b>CAD</b>	OnShape, AutoCAD, CATIA
<b>Others</b>	Finite state modelling ( Simscale, COMSOL, Abaqus ), Fuzzy Logic Tool Box, Vibration test, CAN analysis