

WILMAR P. ALFECHE

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CAREER PROFILE

Geodetic Engineer with 3 years of experience in using Geographic Information Systems for Disaster Risk Mitigation Research particularly in Flood Hazard Mapping. Currently studying Master of Science in Computer Science at Cebu Institute of Technology during weekends with the goal of incorporating recent advancements in Artificial Intelligence and Big Data Mining to GIS and other Spatial Data Analysis fields.

SKILLS

Geodetic Engineering

Geographic Information Systems (ArcGIS and QGIS)
Remote Sensing Image Analysis
Land Surveying using GNSS Receivers and Total Station
Handheld GPS Receivers

Programming

Java
C#
Python

EDUCATION & CREDENTIALS

Master of Science in Computer Science

Cebu Institute of Technology – University
Natalio B. Bacalso Ave, Cebu City, 6000 Cebu

June 2017 – present

Bachelor of Science in Geodetic Engineering

Visayas State University
Visca, Baybay City, Leyte

June 2009 – May 2013

University of the Philippines - Diliman
Diliman, Quezon City

June 2007 – May 2009

EXPERIENCE

Technical Specialist 1 (Java Developer)

October 2018 – March 2019

Alliance Software Inc.
BuildComm Center, 14th Floor,, Sumilon Road, Cebu City, 6000 Cebu

Tasks:

- Implemented Java source code based on client specifications and quality standards
- Reviewed and optimized source code
- Tested implemented source code to check for errors and possible bugs
- Collaborated with other developers to solve errors and improve the project workflow

Accomplishments:

- Accurately implemented Java source code adhering to quality standards and specifications

Senior Science Research Specialist

July 2014 – May 2017

PHIL-LIDAR 1 Program - Flood Hazard Mapping of the Major Rivers Basins in Region 8
Visayas State University, Visca, Baybay City, Leyte

Software Used:

ArcGIS, QGIS, HEC-HMS, HEC-RAS

Tasks:

- Integrated processed LIDAR Digital Elevation Models and Flood Models to create high resolution flood hazard maps
- Conducted bathymetric surveys in the river basins to integrate the actual topography of the river beds in the LIDAR data
- Conducted validation surveys to calibrate the elevation of the LIDAR dataset
- Extracted features from the LIDAR data for GIS Analysis
- Conducted field attribution for the extracted features
- Gathered Hydrologic data such as rainfall and stream discharge during base flow and typhoon events to get inputs for flood model calibration
- Applied hydrologic correction to the LIDAR Dataset
- Calibrated flood models using hydrologic data from different rain events

Accomplishments:

- Successfully completed this 3-year project which created and distributed flood hazard maps to the flood-prone Municipalities in Region 8. The maps were essential inputs for Land Use Planning for the Local Government Units

Geodetic Engineer

November 2013 – June 2014

Department of Public Works and Highways, Cagayan de Oro, 1st DEO
Bulua Street, Cagayan de Oro City

Tasks:

- Conducted route and topographic surveys of proposed road and flood control projects
- Plotted field data in AutoCAD Civil 3D in preparation for design implementation

Accomplishments:

- Successfully conducted route and topographic surveys for Farm to Market roads in Cagayan de Oro

ACHIEVEMENTS

- Top 5 in the Geodetic Engineering Licensure Examinations (September 2013)
- Athlete of the Year in High School (Badminton Varsity Player)
- Class Salutatorian in Elementary School

CONFERENCES ATTENDED

Google I/O

July 1, 2017

J Centre Mall, Albano, Mandaue City, Cebu

Phil-LIDAR 1 Visayas Cluster Conference

November 10-11, 2016

Visayas State University, Visca, Baybay City, Leyte

National Conference for Phil-LIDAR 1 and 2

November 17-18, 2014

Royal Mandaya Hotel, Davao City

PERSONAL INFORMATION

Age:	27	Height:	175 cm
Date of Birth:	November 13, 1991	Weight:	75 kg
Gender:	Male	Nationality:	Filipino
Civil Status:	Single	Religion:	Roman Catholic

HOBBIES

Badminton
Playing Musical Instruments (Guitar and Violin)

