

# Adones B. Caduyac

Profession: Licensed Civil Engineer | Specialization: Water Engineering | Mobile: +639175550564 | Email: caduyak@yahoo.com

## 1. PROFILE SUMMARY:

Has over nine (9) years of experience in engineering industry dealing with various projects in Water Engineering such as Urban drainage, River Engineering, Water Supply, Sewerage, Urban Flooding, and Wastewater treatment. Specializes on rainfall-runoff simulations, 1D and 2D modeling of rivers and urban drainage systems, hydraulic design of storm drainage, sewerage, sewage treatment facilities and water supply systems. More than five years in academe handling civil engineering professional subjects and providing research advice/support to students.

## 2. EDUCATION:

### Master of Science in Civil and Infrastructure Engineering Major/Specialization: Water Engineering and Management

Scholarship: Thai Pipe Scholarship  
Asian Institute of Technology, Thailand  
Month & Year Graduated: May 2019

### Bachelor of Science in Civil Engineering

Dean's Honor List, GWA: 1.56 (90%)  
University of Cebu, Philippines  
Month & Year Graduated: October 2010

## 3. WORK EXPERIENCE:

### A. Hydronet Consultants Inc., Cebu City

- Senior Water Engineer (2019 – Present)
- Drainage Design Engineer (2016-2017)
- Civil Design Engineer (Water) (2012 – 2014)

Conduct hydrologic and hydraulic analysis for flood study, design of flood control structures, and drainage impact assessment (DIA) projects. Perform hydraulic analysis & design of drainage, flood control structures, sewerage, wastewater treatment facilities, and water supply distribution systems. Handles urban drainage masterplan projects which involves hydrologic and hydraulic modeling of urban catchments using PCSWMM software, HEC-HMS, and HEC-Ras. Simulate 1D-2D and fully 2D flood inundation. Lead and supervise the design of water resources projects. Prepares technical report & presentations.

### B. Research Intern, United Nations Economic and Social Commission for Asia and Pacific (UNESCAP), Bangkok Thailand, (2018 – 2019)

Carry out research study on urban flood risk assessment under climate and land use change scenarios.

### C. Part time Engineering Instructor, University of Cebu (2012 – 2017), University of San Carlos (2013-2014)

Teach students in the subject area, develop instructional plan or course syllabi, assess students' progress by grading paper, tests, and other works. Prepare course manual.

### D. Associate Design Engineer (Civil/Water), Fluor Daniel Philippines, Cebu City, 2014 – 2016

Prepare engineering plans and drawings of underground piping networks and coordinate with Canada counterparts for design issues and concerns. Performed earthwork calculations. Prepare 2D plans and drawings, specifications of steel framings, and details of foundations and piles. Develop 3D models of the plant structure. Prepare bill of quantity of materials or material take-off reports.

## 4. MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS:

**Member**, Philippines Institute of Civil Engineers (PICE)

**Member**, American Society of Civil Engineers (ASCE)

**Member**, International Water Resources Association (IWRA)

**Member**, Environmental & Water Resources Institute (EWRI)

## 5. PROFESSIONAL PRESENTATIONS, TRAININGS & SEMINARS:

**Speaker**, DIA Workshop - Preparation of Drainage Impact Assessment Study for Mandaue City, April 09, 2020 (6 hours)

**Presenter**, Hydraulic Analysis and Proposed Engineering Interventions, Technical Presentation of Mandaue City Drainage Masterplan, 2019 (5 hours)

**Presenter**, Flood Study and Drainage Impact Assessment, A technical presentation given to Mandaue City CPDO and CEO, 2019 (1 hour)

**Participant**, Sediment Characteristics, Sources, and Movements, ASCE online seminar, July 25, 2020 (2 hours)

**Participant**, Stormwater Management Alternatives for Small Commercial Sites, ASCE online seminar, May 08, 2020 (2 hours)

**Participant**, Inter-met Asia (Inter-flood) Conference, Singapore, March 27-28, 2019 (16 hours)

**Participant**, Soil and Water Assessment Tool (SWAT) Training Workshop, AIT Thailand, July 2018 (24 hours)

**Participant**, Groundwater Modeling with MODFLOW, Webinar – Australian Water School, August 14, 2018 (1hour)

**Participant**, Design of Sustainable Drainage System, Webinar – Innovyze, July 25, 2018 (1 hour)

**P4 Author & Speaker**, Drainage System Design and Analysis for Oil and Gas Plants, Fluor Philippines, Presented at Cebu Technological University (CTU), December 15, 2015

**Participant**, Culvert Design Analysis Training, Fluor Philippines, November 3-6, 2014

## 6. SOFTWARES

Name	Basic	Intermediate	Advanced	Expert
PCSWMM				
EPANET				
EPASWMM				
HEC-Ras				
HEC-HMS				
SWAT				
Mike 11				
HEC-Resim				
MODFLOW				
Qual2K				