## Federal University of Acre Computer Science Postgraduate Program Distributed Software Development



#### **Course Outline**

Prof. Dr. Daricélio Soares Prof. Dr. Manoel Limeira

#### **Agenda**

- Personal presentation
- Context/Motivation
- Program
- Dynamics
- Grading
- What is an academic master's degree?

## Personal presentation

#### **Personal presentation**

- Who am I?
  - Assistant Professor
  - https://daricelio.github.io/
- Who are you?
  - Name
  - Graduation
  - Job
  - What is your definition for distributed software development?
  - What you expect for this course?

### Context/Motivation

 Development team geographically dispersed aiming to produce quality software.

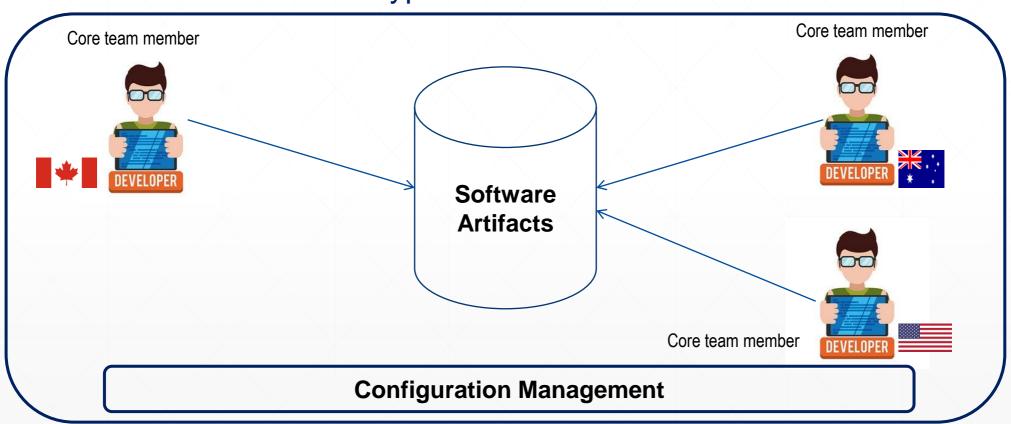


https://www.comakeit.com/blog/wp-content/uploads/2018/02/Agile-distributed-development-is-a-great-fit-for-software-driven-businesses\_blog.jpg

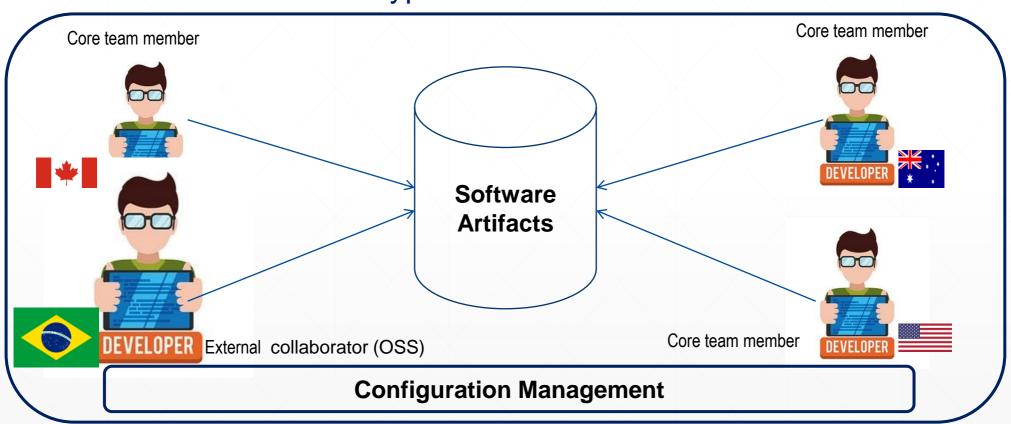
 "OSS development projects are almost always collaborative and distributed. Difficulties imposed by distance, these projects have managed to produce large, complex, and successful systems".

(Gutwin et al., 2004)

#### **Typical Scenario**



#### **Typical Scenario**



- Challenges
  - Communication
  - Cultural differences
  - Timezone
  - Assigning Tasks
  - Collaboration



## Course Program

#### **Program**

#### Discipline syllabus

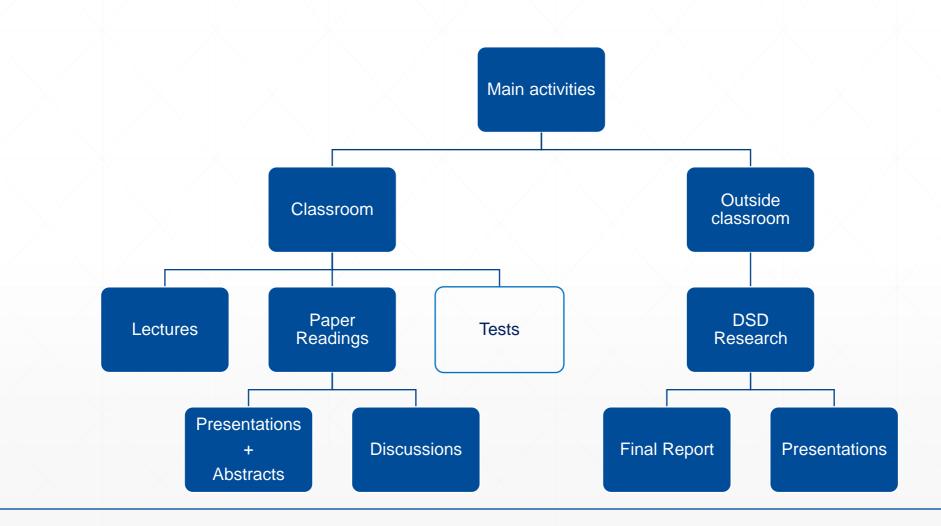
 Context; Historical Perspectives; Distributed Software Development Fundamentals; Distributed Development Paradigms; CASE tools; Current Topics in Distributed Software Development.

#### Basic References

- CHACON, SCOTT; STRAUB, BEN. Pro Git (2nd ed.). Apress, Berkely, CA, USA. 2014.
- HIGTHSMITH III, J.A; ORR, K. Adaptive software development: a collaborative approach to managing complex systems. NY: Dorset House Publishing, 2014.
- PRESSMAN, R. S; MAXIM, B. R. Software Engineering: A Practitioner's Approach. 8. ed. Mc Graw Hill Education, 2016.
- SOMMERVILLE, Software Engineering. 10. ed. Pearson, 2015.

## Course Dynamics

#### **Dynamics**



#### Paper Readings

- All students should read all articles
  - Each student will be responsible for presenting seminars and/or producing a abstract from articles
  - The order of presentation will be defined by lottery
  - Seminar lasting 30 minutes
  - Using slides

#### **Discussions**

 In addition, the remaining students should interact according to schedule

Presentation	Questions	Weak points	Strong points
2	3	4	5
3	4	5	6
4	5	6	7
5	6	7	8
6	7	8	1
7	8	1	2
8	1	2	3

Schedule example

#### **DSD** Research

- Goal:
  - Practical in DSD perspective + Literature revision
  - Mine/Visualize DSD repositories
  - Study some advanced DSD technique
- Try to align the course project with your thesis theme
- Presentations + Final Report

## Grading

#### Grading

- Score =  $(2 \times Pp) + (1 \times D) + (1 \times T) + (2 \times Rw))/6$ 
  - Pp Paper presentations
  - D Discussions
  - T Tests
  - Rw Research Work

- Approved
  - Presence ≥ 75% AND Score ≥ C (5,0)

# What is an academic master's degree?

#### **Questions?**

