Extending the Cadence Ecosystem in Academic World – Tensilica Day

Anton Klotz
University Program Manager EMEA
http://bit.ly/academicnetwork
http://www.cadence.com/site/academicnetwork
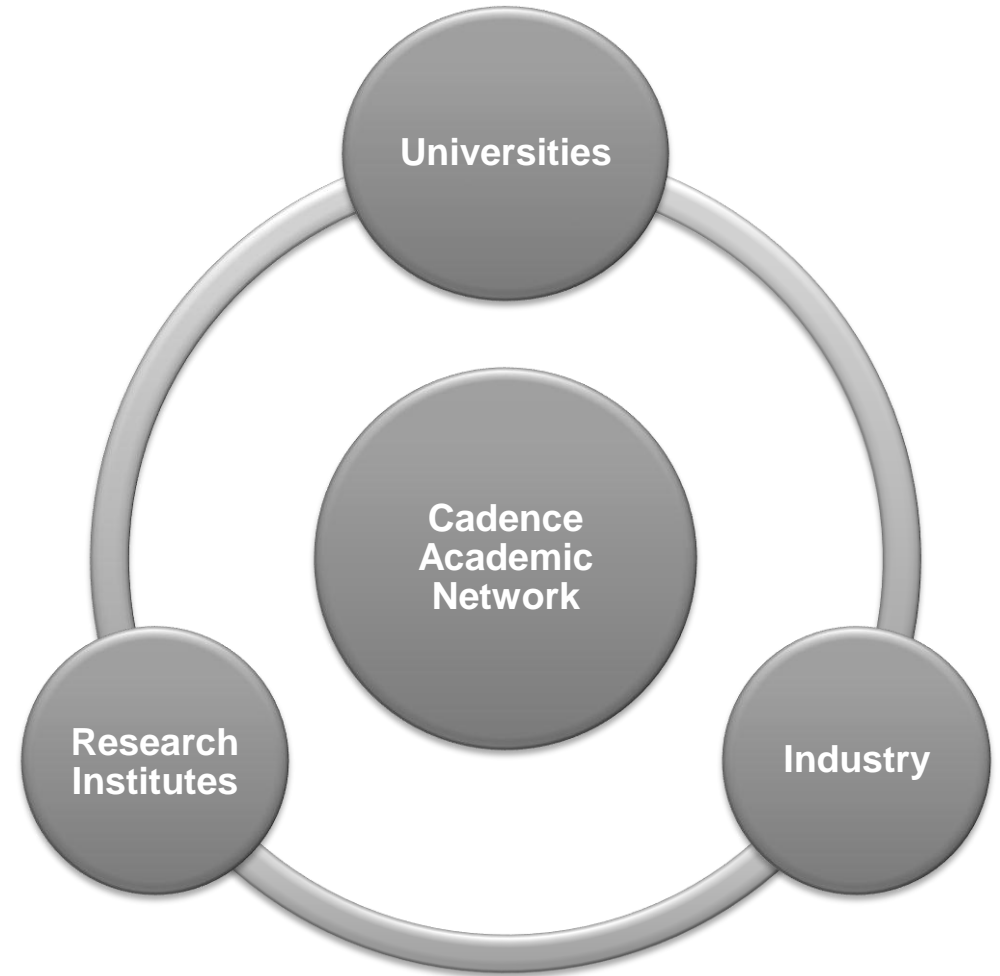
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Why academia?

- Cadence-aware graduates → Customer loyalty
- Future business impact
- Introduce new technology into our customer base
- Fast new hire ramp up for our customers
- Research opportunities for Cadence
- Future talent for Cadence

→ Build a network of sophisticated Cadence users

Cadence Academic Network Mission

- ...was launched to promote proliferation of leading-edge technologies at universities

- ...is a knowledge network among selected universities, industry advisors and Cadence

- ...was established to facilitate the sharing of technology expertise in the area of electronic design automation

Lowering barriers

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Cadence Online Support (COS) Reference keys

COS Reference keys

- Reference keys are used to provide **access to COS (http://support.cadence.com/)**

- Professors and PhD students at universities can <u>access all the resource sections</u> including:

  - **Application Notes**
  - **Product Manuals**
  - **Tech Infos**
  - **White Papers**
  - **Videos**
  - **Troubleshooting database with common problems and solutions**

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Obtaining Reference keys

- Send a request to academicnetwork@cadence.com. A member of our team will set up a call with you, explaining the details, and will provide you an account. Please send the request from your university account.

- Reference keys will have to be renewed every year

- The key will be delivered to the professor, that may register employees, PhD students and Master students. Please register university accounts only

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Reference keys T&Cs

- ALL material provided using COS reference keys is <u>Cadence confidential material.</u>

- When the professor registers the students, he needs to let them acknowledge the Terms of Use Agreement:

  <u>http://www.cadence.com/Pages/terms.aspx</u>

- This document doesn't need to be sent back to Cadence.

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Training offerings

Training

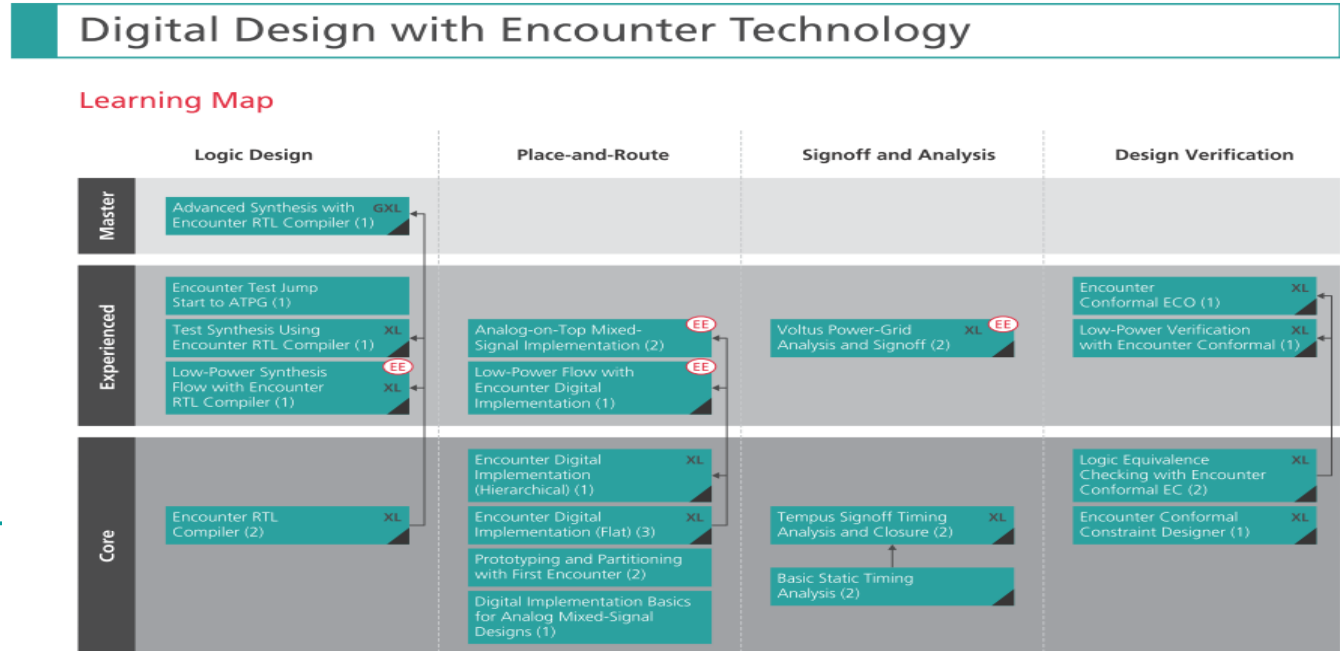Wide range of available product/language/methodology trainings

- iLS (Internet Learning Series)
- Instructor-led courses (upon request on a case by case basis)

Cadence education services brochure:
http://www.cadence.com/Training/eu/Docuents/Cadence%20_Training_Brochure.pdf

Learning Maps:

http://www.cadence.com/Training/Pages/learning_maps.aspx

Course catalogs

Course Catalogue

⊞ Expand/Collapse All

View : **Instructor-Led Courses** | **Online Courses** | **Virtual Classroom** | **Scheduled Courses**

⊞ Advance with Engineer Explorer Series

⊞ Custom IC Design – Virtuoso .... Course overview 📕

⊞ Digital IC Design .... Course overview 📕

⊞ Functional Verification – Incisive .... Course overview 📕

⊟ IP/VIP .... Course overview 📕

- Introduction to System Modeling with Tensilica Processor Cores v5.2-iLS ... Online Training Course
- Tensilica Fusion DSP v6.2-iLS ... Online Training Course
- Tensilica Instruction Extension Language and Design v6.1-iLS- ... Online Training Course
- Tensilica Processor Fundamentals v5.0-iLS- ... Online Training Course
- Tensilica Vision P5 DSP v6.2-ILS ... Online Training Course
- Tensilica Xtensa Hardware Verification and EDA v6.1-iLS- ... Online Training Course
- Tensilica Xtensa Processor Interfaces v6.1-iLS ... Online Training Course

⊞ Language and Methodology Courses for Chip and SPB Design .... Course overview 📕

⊞ Manufacturability .... Course overview 📕

⊞ Online Subscription

⊞ System Interconnect Design – Allegro & OrCAD .... Course overview 📕

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Endorsement from Cadence Academic network Lead Institution

"I use the Cadence iLS courses on a daily basis to teach my students directly from the heart of the EDA industry how to use the latest and more advanced tools out in the market to design complex embedded systems that meet today's most demanding specifications."

Prof. Dr.-Ing. habil. Michael Hübner
Chair for Embedded Systems in Information Technology (ESIT)
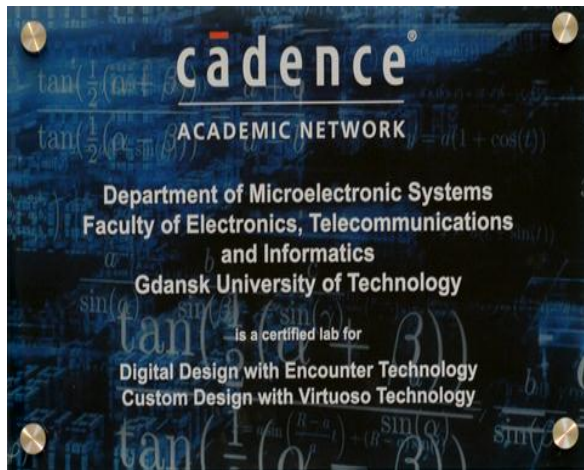Ruhr-University of Bochum

Certification

Benefits of Certification

- Get comprehensive knowledge of Cadence's state of the art technology in order to **keep a high quality standard in education**
- Share our **leading edge industry standard technology** in the area of electronic design automation with your students
- Be **recognized as experts** in a certain Cadence technology
- **Promote your lab** to your future students and the community

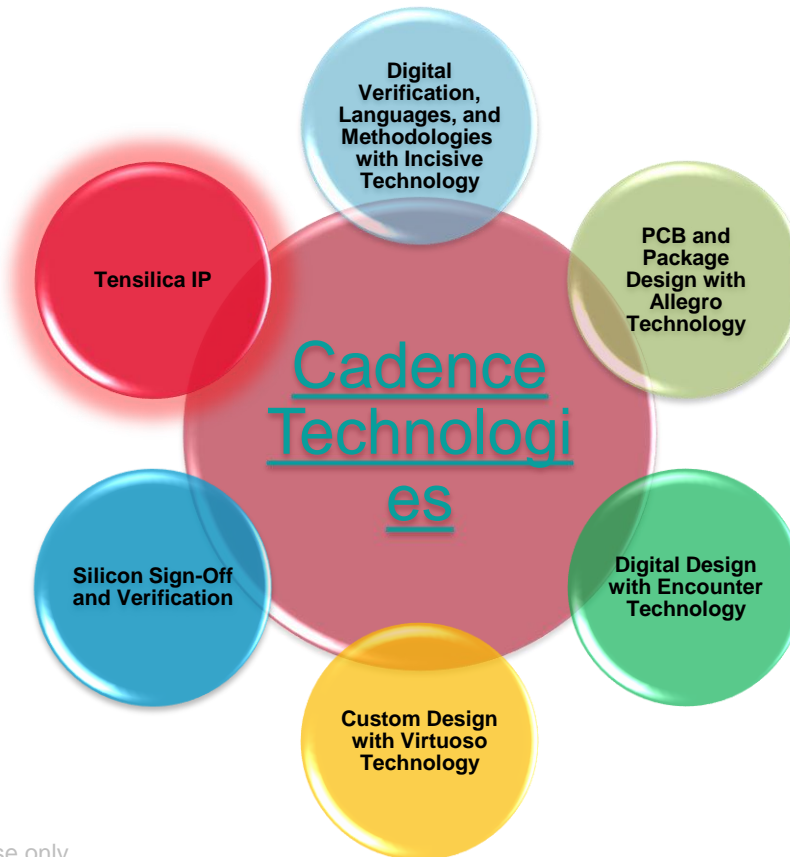**STEP 1**: Choose one or more Cadence Technologies to be certified
STEP 2: Select a group of lab instructors
STEP 3: Attend and pass all the required training
STEP 4: After all instructors have accomplishing all trainings, the instructors and your lab get certified
STEP 5: Stay Updated

Use **latest version** of Cadence Products used in the lab

Cadence Technologies

Digital Verification, Languages, and Methodologies with Incisive Technology

PCB and Package Design with Allegro Technology

Tensilica IP

Silicon Sign-Off and Verification

Digital Design with Encounter Technology

Custom Design with Virtuoso Technology

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The Academic Network

Networking & Community

- Providing Academia knowledge exchange platforms to facilitate networking

  - **CDNLive! EMEA**
    - Academic Track 2016 (since 2007)

  - **LinkedIn Groups**
    - Cadence Academic Network Group (since 2011)

  - **Cadence Academic Network Newsletter and Blog**
    - Cadence Academic Network Newsletter (1st issue)
    - Cadence Academic Network Blog

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Networking & Community

- Providing Academia knowledge exchange platforms to facilitate networking

  - **CDNLive! EMEA**
    - Academic Track 2016 (since 2007)

    - Outstanding industry and university collaborations
    - Outstanding courses, laboratories and design projects development
    - New concepts in teaching
    - Outstanding curricula in Micro- Nanoelectronics education
    - Education for entrepreneurship in microelectronics
    - Emerging fields in design and technology
    - Microelectronics teaching in the future
    - Long distance and continuous microelectronics education
    - Educational infrastructure: design and IP libraries, CAD tool access

CDNLIVE^{SM}
Cadence User Conference 2016
EMEA - Munich, Germany—May 2-4

Global CDNLive page
www.cdnlive.com

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CDNLIVE SM
Cadence User Conference 2016
EMEA – Munich, Germany—May 2-4

connect. share. inspire.

Conference Details | Call for Papers | 🏠

Overview | Hotel & Transportation | **Academic Track**

CDNLive EMEA 2016 — Academic Track

May 2-4, 2016
Dolce Munich, Unterschleissheim
Munich, Germany

The purpose of the Academic Track at CDNLive EMEA is to provide a forum to present outstanding work in education and research from your group or university to the Cadence Academic Network Contributors and industry attendees visiting CDNLive EMEA.

2016 will mark the ninth time that the Academic Network has come together with industry attendees at this conference. As the Academic Track is fully integrated into the CDNLive user conference, all accepted submissions will be listed in the CDNLive program and will be visible to all CDNLive attendees.

As in the last year you will get valuable technical updates from Cadence and be able to attend presentations from Cadence users in the technical tracks of CDNLive.

The entire conference provides a platform to exchange ideas and to discuss developments and challenges in education and research on microelectronics and related areas.

This year's topics of interest include (but are not limited to):

- Outstanding industry and university collaborations
- Outstanding courses, laboratories and design projects development

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ORGANIZING COMMITTEE

General Chair
Anton Klotz
Cadence Design Systems

Program Chairs
Matthias Keller
University of Freiburg, Germany

Jaan Raik
Tallinn University of Technology, Estonia

Past Program Chair
Mladen Berekovic
Technical University of Braunschweig, Germany

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CDN LIVESM
Cadence User Conference 2016
EMEA – Munich, Germany—May 2-4

connect. share.inspire.

Conference Details | **Call for Papers**

Overview | Suggested Topics | Academic Track | Submit an Abstract

CDNLive EMEA 2016 – Call for Papers Now Open

Save the date: May 2-4, 2016
Dolce Hotel Unterschleissheim
Munich, Germany

Tell Your Story

Whatever your design specialty, CDNLive is an excellent opportunity to share your experiences and insights on key technical and industry issues. Submit an abstract for consideration at the 2016 conference. If your abstract is accepted, you'll gain free admittance to the conference.

Suggested Topics »

Important Dates

ACTIVITY	DATE
Call for papers opens	October 5, 2015
Call for papers closes	December 16, 2015
Acceptance notification	February 19, 2016
Draft presentations due	March 18, 2016
Final presentation slides due	April 15, 2016

What's New

CDNLive EMEA 2016 Call for Papers Suggested Topics »

Join thousands of Cadence users in our online community. Visit the Community »

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Related to networking & community

- Providing Academia knowledge exchange platforms to facilitate networking

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    - Academic Track 2016 (since 2007)
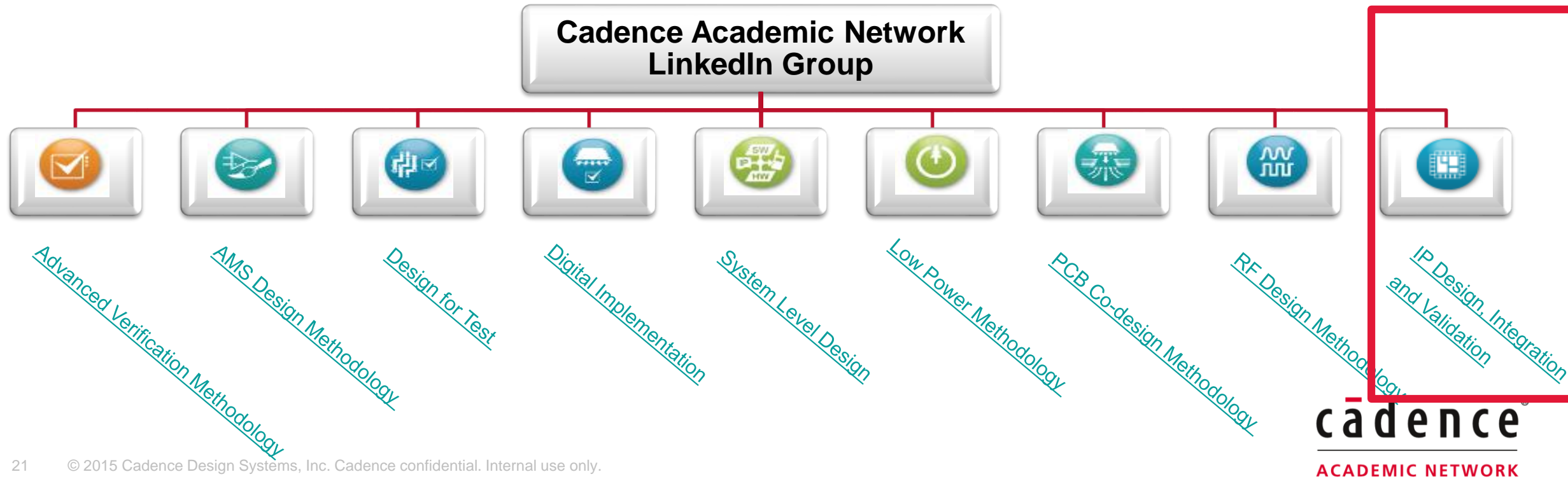
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Cadence Academic Network
LinkedIn Group Structure

- One <u>main group</u> with general information (>6790 members – 11/02/2015)

- Nine <u>groups</u> with information specific to a dedicated technical field

- More than 800 submissions

Cadence Academic Network LinkedIn Group

Advanced Verification Methodology

AMS Design Methodology

Design for Test

Digital Implementation

System Level Design

Low Power Methodology

PCB Co-design Methodology

RF Design Methodology

IP Design, Integration and Validation

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What you can find in the subgroups

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Networking & Community

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- **Important announcements of Academic Network e.g. license changes, new software packages, new products available for universities,…**
- Reports of sponsored and visited **conferences** and organized **workshops, technology days**, **certification events**…
- Overview of **upcoming events**, which are sponsored/organized by Academic Network
- **Open positions** for interns or **success stories**
- New iLS, RAKs, GPDK
- **Introduction of a lead or certified university**, which tools are used, which projects, kind of research
- **Calls for papers**
- References to other media, where Academic Network was mentioned: YouTube, Cadence Blog,…

Subscribe to Cadence Academic Network Newsletter

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Summary

What to remember?

- COS – Access to Cadence Online Support
- Training offerings
- Certification
- Academic Track at CDNLive
- LinkedIn Cadence Academic Network group
- Cadence Academic Network Newsletter and Blog

→www.cadence.com/site/academicnetwork

→Or google for „Cadence Academic Network"
→If you have further questions, contact academicnetwork@cadence.com

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Thank You for Your Attention!