



Nordic Semiconductor

Course Agenda

Tuesday, October 8th				
		Topic	Description	Duration(mins)
17:00	17:30	Registration and Pizza	Course participants register, get the nRF52840 DK+ servo + sensor + jumper cables and we eat pizza.	30
17:30	18:00	Introduction to Nordic Semiconductor, course agenda and nRF52840 intro	A short presentation of Nordic Semiconductor ASA as a company and a quick walkthrough of the course agenda.	30
18:00	18:30	Introduction to the nRF52840 DK	Introduction to the nRF52840 DK and it's features	30
18:30	18:45	Break	-	15
18:45	19:15	Walk through the Hands-on	What will we do in this course	30
19:15	19:30	Introduction to VS Code	Quick intro to VSC: Building projects, flashing the nRF52, modifying build parameters, debugging	15
19:30	20:00	Start working with the Hands-on	Start creating our project for the nRF52840	90
20:00	20:30			
20:30	21:00			

Course Agenda

Wednesday, October 9th				
		Topic	Description	Duration(mins)
17:00	17:30	Pizza	Eating Pizza	30
17:30	18:00	SoftDevice Controller Introduction	Short introduction to the Bluetooth Low Energy stack	30
18:00	19:00	Bluetooth Low Energy(BLE) Hands-on with the nRF52840	Start working on the Bluetooth Low Energy part of the Hands-on	60
18:30	19:00			
19:00	19:15	Nordic Tools	Introduction to Nordic Development tools	15
19:15	19:30	Break	-	15
19:30	20:00	Bluetooth Low Energy(BLE) Hands-on with the nRF52840	Implement event handling for Bluetooth Low Energy Events	90
20:00	20:30			
20:30	21:00			

Course Agenda

Thursday, October 10th				
		Topic	Description	Duration(mins)
17:00	17:30	Pizza	Eating Pizza	30
17:30	18:00	BLE and servo motor Hands-on exercise	Roundup: Work on whatever you have left of the Hands-on <i>(Take breaks as you need)</i>	180
18:00	18:30			
18:30	19:00			
19:00	19:30			
19:30	20:00			
20:00	20:30			
20:30	21:00	Kahoot Quiz	Kahoot Quiz	30



Nordic Semiconductor

A brief overview of Nordic Semiconductor

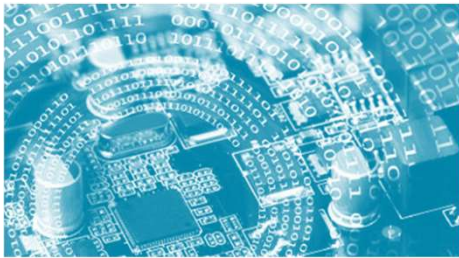


- Founded in 1983, Headquartered in Norway
- 1450+ employees
- R&D in Norway, Finland, Poland, Sweden, UK, India, Denmark and the US
- Publicly listed in Norway under the ticker OBX:NOD
- Key partners: TSMC, AMKOR, ASE

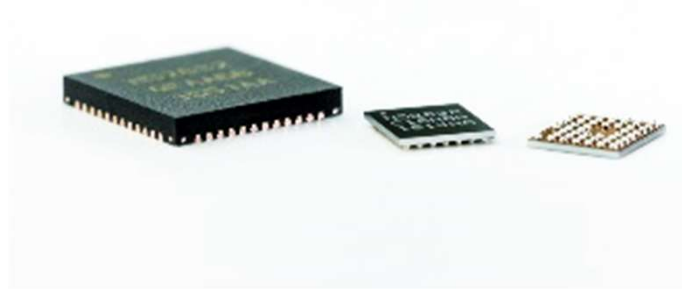
- Fabless semiconductor company - specialized in ULP wireless connectivity and embedded processing for IoT
- Leading short range connectivity market with Bluetooth LE and Thread/Zigbee
- Low power cellular IoT with LTE-M and NB-IoT technologies
- Expanding into Wi-Fi 6 IoT market with new device family

A brief overview of Nordic Semiconductor

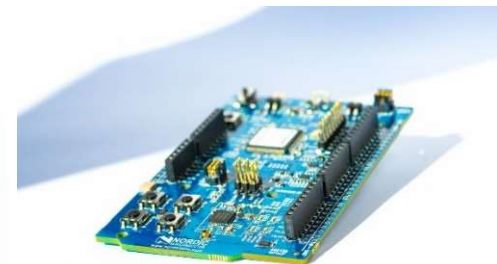
- Embedded software



- Integrated circuits



- Development tools



- Wireless protocol stacks
- Software Development Kits (SDKs)

- System-on-Chips (SoCs)
- System-in-Package (SiPs)
- Wireless connectivity ICs (Radios)

- Development kits
- Software tools
- Mobile Applications

Nordic Semiconductor products

Short Range



Bluetooth Low Energy

Matter

Thread/Zigbee

Proprietary

Wi-Fi



Wi-Fi 6
2.4GHz +5GHz

Cellular



LTE-M
NB-IoT
GPS

PMIC



Li-Ion charger
LDO

DC/DC buck
converter

nRF Cloud



Cloud connectivity
Location support
SCell/MCell
AGPS/PGPS
Device management

Dedicated to wireless connectivity

Broad portfolio - scalable solutions - common software platform

Strong product and solutions portfolio...

...for short-, medium- and long-range connectivity technologies



Low-power integrated circuits (ICs)

+



Embedded software

+



Advanced development tools

Short-range IoT

Bluetooth LE, 802.15.4/Thread, Zigbee and 2.4GHz RF SoCs



Medium-range IoT

Acquired leading Wi-Fi team and Wi-Fi assets in 2020



Long-range IoT

Multi-mode cellular LTE-M/NB-IoT Modules

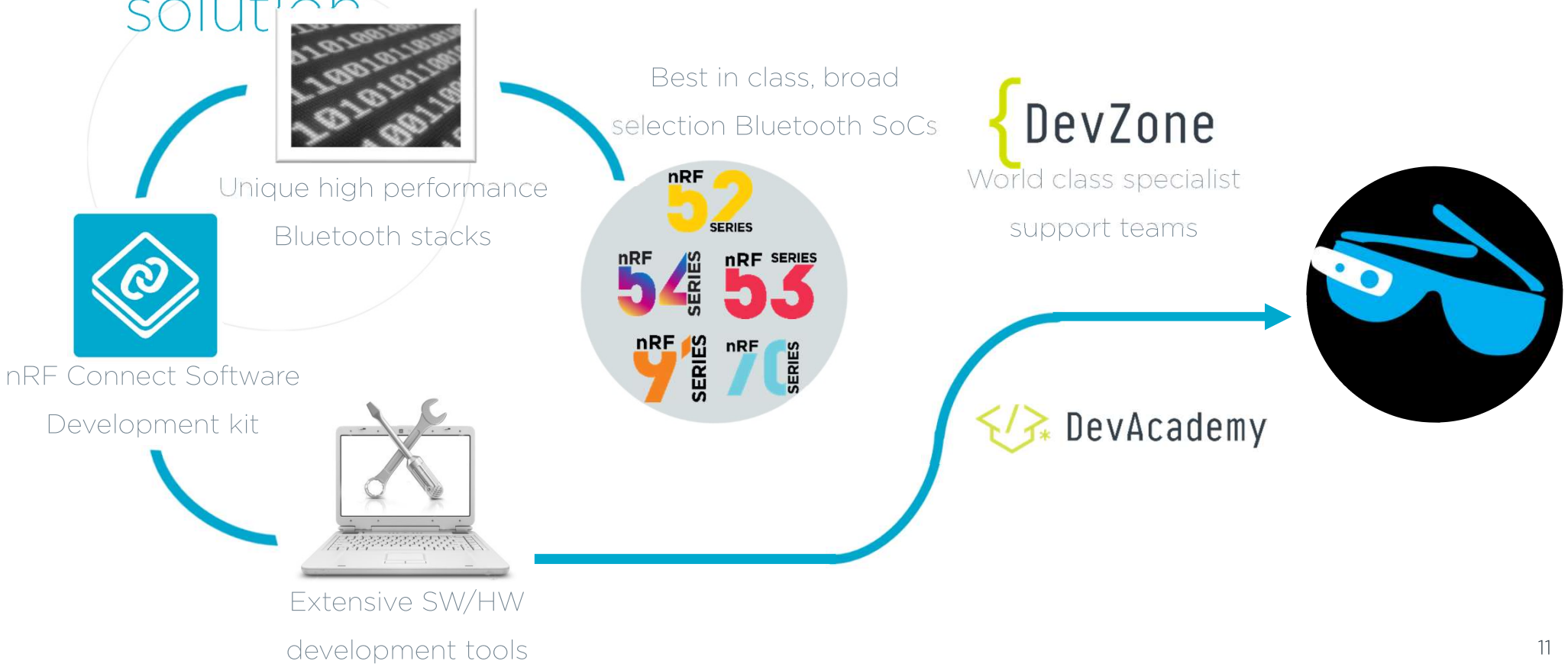


Clear market leader in a growing market



Nordic is the
clear market leader
#1 in number of designs
#1 in units sold

The Complete Bluetooth® low energy solution



Dive into the IoT wireless technologies



- [Nordic Developer Academy](#)
- [Nordic Tech Webinars](#)
- [Nordic DevZone](#)
 - Leading community in the industry
 - >80K developers, 2.4M annual site visits
 - Strong tech support team
 - Blogs, guides, and tutorials

Nordic Developer Academy

- Interactive online learning platform
 - State of the art IoT wireless technologies focused
 - Curriculum-based courses with well-defined learning paths
 - Self-paced hands-on courses
 - Test your knowledge through interactive quizzes



Student opportunities



NORDIC[®]
SEMICONDUCTOR

This year we have had over 100 students working at Nordic!



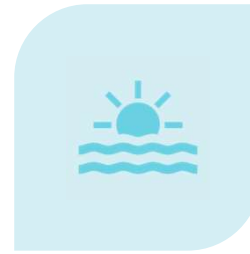
Student opportunities at Nordic



SUMMER JOB



MASTER THESIS



PART-TIME (1 DAY A
WEEK, PRIMARLY
AFTER BEING A
SUMMER STUDENT)



GRADUATE POSITIONS
AFTER GRADUATING

Summer job



Usually, you will be working on a project together with other students

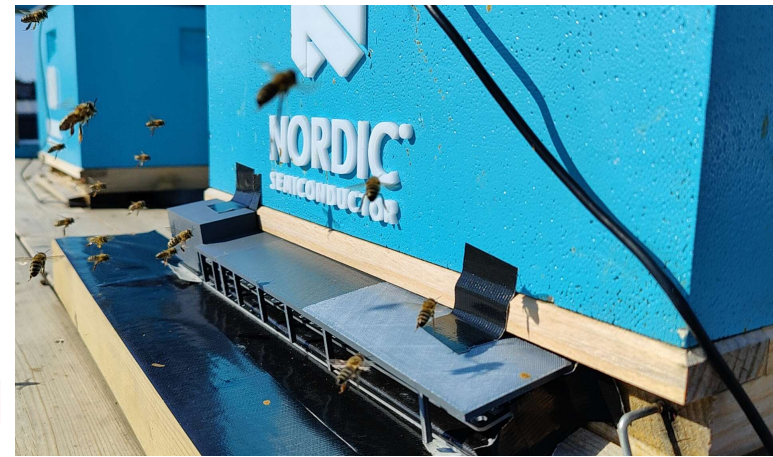
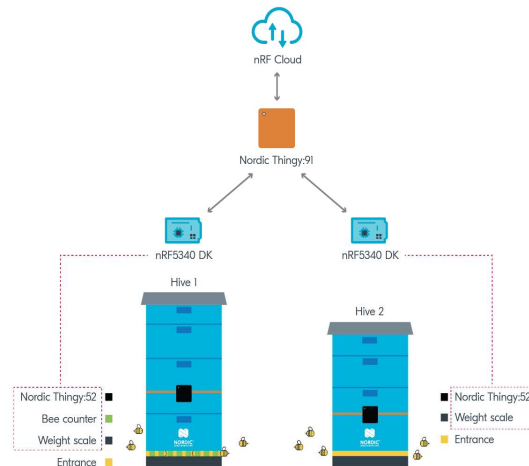


Will get help from a mentor



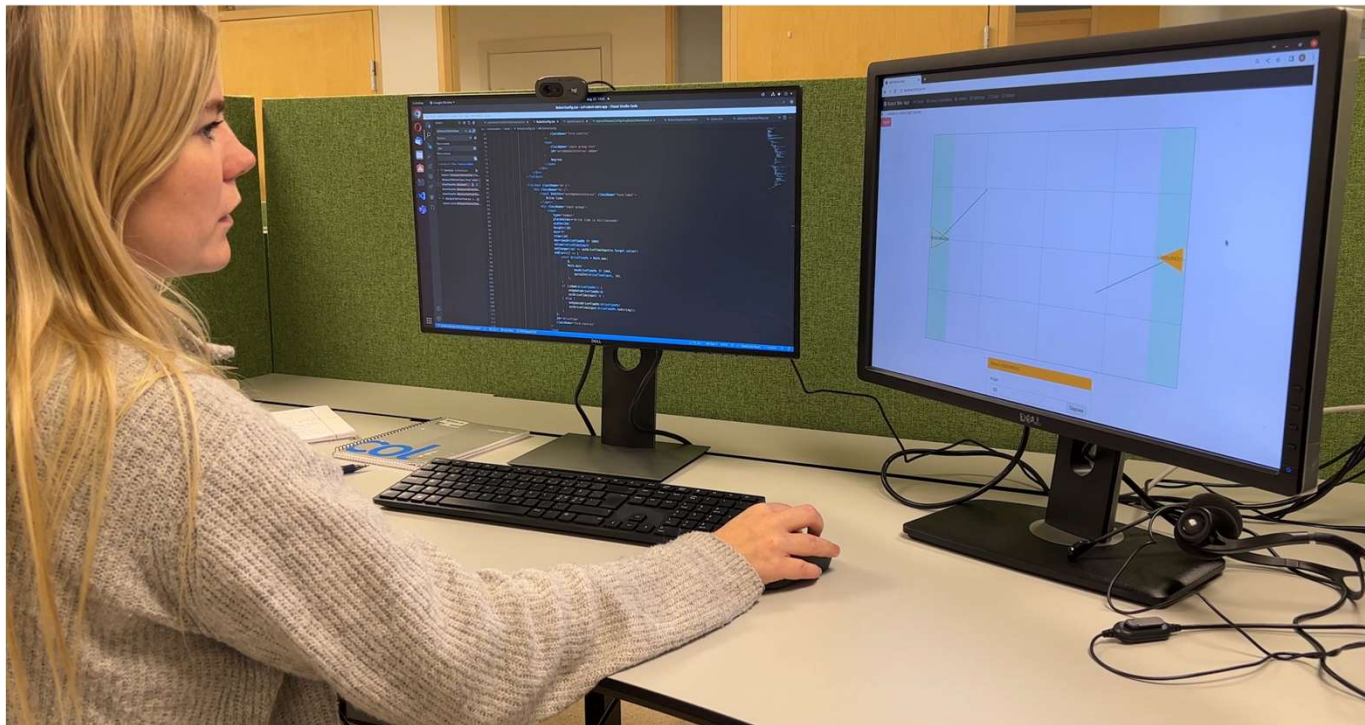
Great opportunity for moving on to part-time or fulltime positions at Nordic

- Beehaviour monitoring: Making Beehives smart with Nordic products



Robot Wars

- Capture your opponent's home base! Controlled from the cloud through a Bluetooth Mesh gateway.



WORK SOMEWHERE AWESOME

For student and graduate opportunities
nordicsemi.com/student