`Wes AlgenWorks B.V.
Silicon Lowlands
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KvK nr.   66202555

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FuturaWerk Preventiecoöperatie UA

t.a.v. mevr. L.J. van van Gerven

Adres: Parksingel 44

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Phase 1: Discovery & Architecture (Preparation)
High-level architectural decisions and requirements definition.

	Role	Rate	Hours	Total
Project Scoping & Definition: Analysis of customer requirements, stakeholder interviews, and defining success metrics (KPIs).	*Business Analyst*	€ 165	4.0	€ 660
System Architecture Design: Designing the Multi-Agent System (MAS) using Google ADK. Defining the "Tiered Self-Correction" Strategy (Regex → LLM → OCR).	*AI Architect*	€ 250	6.0	€ 1,500
Data Pipeline Strategy: Designing the Universal Invoice Processor logic to handle raw text vs. OCR fallbacks without format assumptions.	*Data Architect*	€ 225	2.0	€ 450

Phase 2: Core Development (The Build)
Implementation of the Python agents and core logic found in `capstone_agents.py` and `universal_invoice_processor.py`

	Role	Rate	Hours	Total
Universal Invoice Processor: Implementation of `UniversalInvoiceExtractor`, Polars integration, and basic PDF text extraction (PyPDF2/PDFPlumber).	*Python Dev*	€ 175	5.0	€ 875
Multi-Agent Orchestration: Implementing InvoiceOrchestrator using Google ADK. Setting up async dispatching for `HeaderAgent` and `LineItemAgent`.	*AI Engineer*	€ 215	8.0	€ 1,720
Agent Prompt Engineering: Iterative design of prompts for Header extraction (JSON schema enforcement) and Line Item logic (handling ClientCaseNumbers).	*AI Engineer*	€ 200	4.0	€ 800
Regex Engine Development: Creating the Shared Regex Tool (`InvoiceRegexExtractor`) for DRY principles. Implementing extraction for KVK, VAT, and Dates.	*Python Dev*	€ 175	3.0	€ 525
Business Logic Implementation: Coding `ClientCaseMatcher` with fuzzy logic (Levenshtein/canonical mapping) to handle **I/1** and **O/0** OCR/Human errors due CodeGenerator bug in 2024/2025 for using **I/O** characters in `CCN`	*Python Dev*	€ 175	2.0	€ 350

Phase 3: Integration & Tooling
Connecting external APIs and handling edge cases.

	Role	Rate	Hours	Total
Google Vision OCR Integration: Implementing `ocr_tools.py` for fallback on image-based PDFs using Google Cloud Vision API.	*Cloud Engineer*	€ 180	4.0	€ 720
Google Workspace Pipeline: Automation of PDF retrieval from Gmail/Drive (Ingestion pipeline).	*Integration Specialist*	€ 215	2.0	€ 430
Self-Correction Logic: Developing the specific logic in `process_invoice.py` that triggers OCR tools only when Header data (`KVK/VAT`) is missing.	*AI Engineer*	€ 215	4.0	€ 860

Phase 4: Validation & Delivery
Testing frameworks and User Interface.

	Role	Rate	Hours	Total
Evaluation Framework: Building `evaluate_capstone.py` using `DeepDiff` to compare Agent output against Ground Truth datasets.	*Data Scientist*	€ 190	6.0	€ 1,140
UI Development: Creating the end-user interface for "Human-in-the-loop" review (Accept/Reject/Modify invoices).	*Frontend Dev*	€ 160	7.0	€ 1,120
Documentation & Code Cleanup: Refactoring to Clean Architecture (Modules), writing `README` and inline documentation.	*Technical Writer*	€ 150	3.0	€ 450

Totaal excl. BTW			60.0	€ 11,600.00
BTW Hoog 21%				€ 2,436.00
Total				**€ 14,036.00**